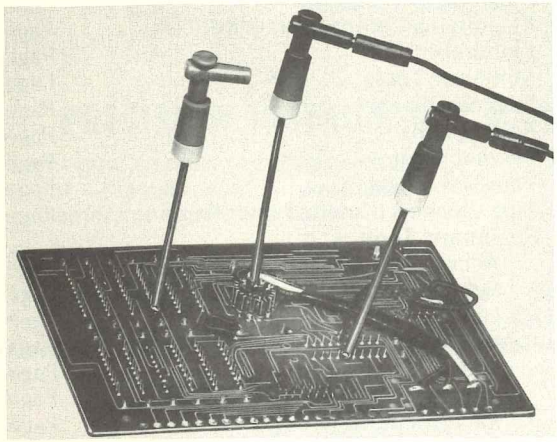
HUNTER TECHNICAL AIDS
and NEW PRODUCTS

CATALOG

Recd. 5/17/73

HAND TOOL BOX



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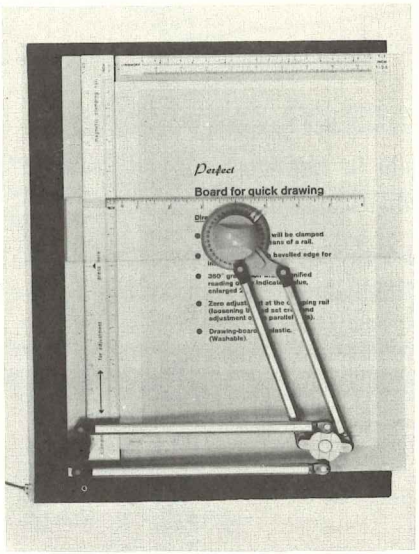

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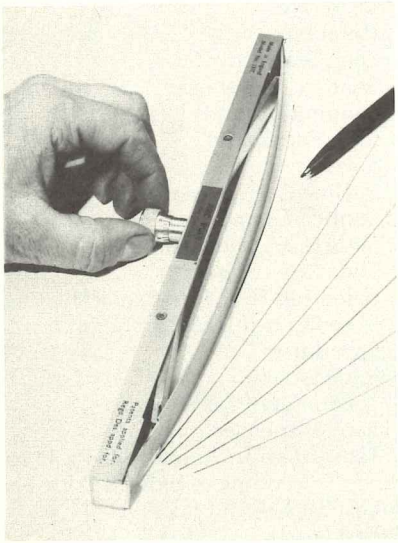

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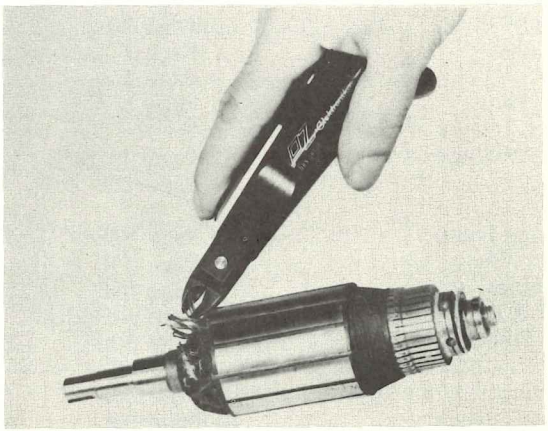

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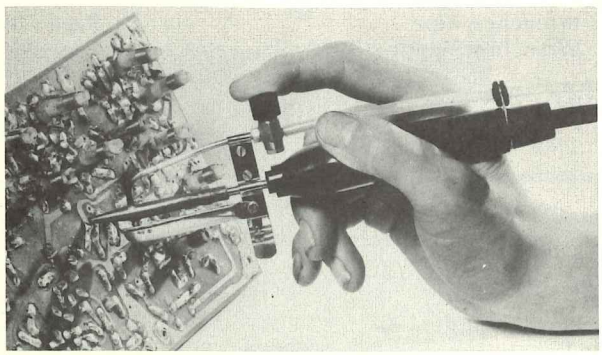

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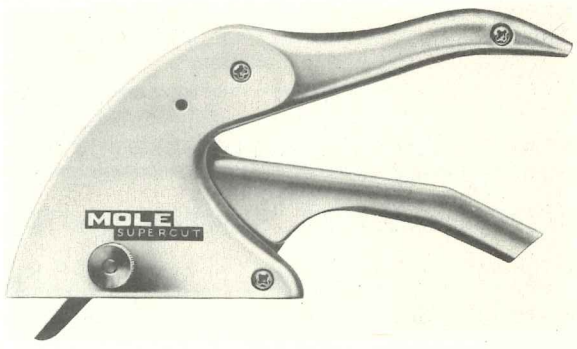

SUPERCUT PAGE 72E

HUNTER ASSOCIATES 792 PARTRIDGE DRIVE SOMERVILLE, N.J. 08876 PHONE: (201) 526-8440

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HOW TO ORDER

- All Merchandise is Available Directly from:

  Hunter Associates
  792 Partridge Drive Somerville, New Jersey 08876 Phone: (201) 526-8440
- Open account to "good" or better D&B Rated companies only.
- Terms: Net 30 days F.O.B. Somerville, New Jersey
- Shipments will be made from Somerville, N.J. either collect or prepaid and charged.
- Delivery: 2-3 weeks on stock items

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

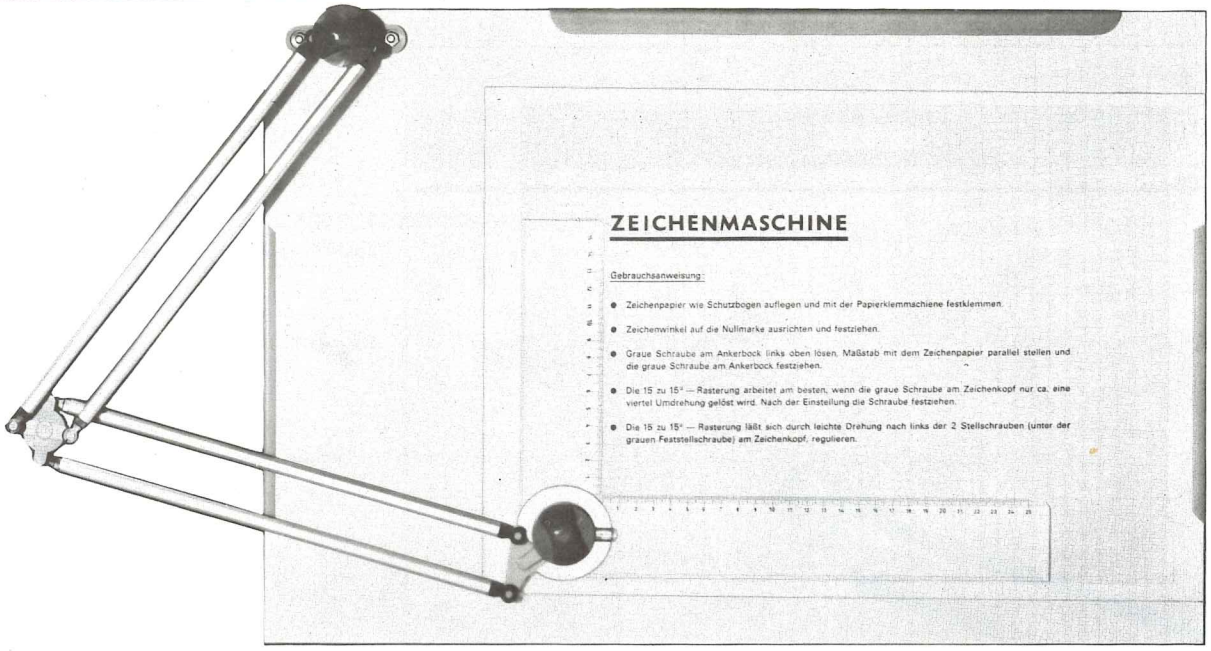
TECHNICAL AIDS

CATALOG 6A

HUNTER PORTABLE DRAFTING BOARDS

PRECISION INSTRUMENTS MADE TO PROFESSIONAL STANDARDS

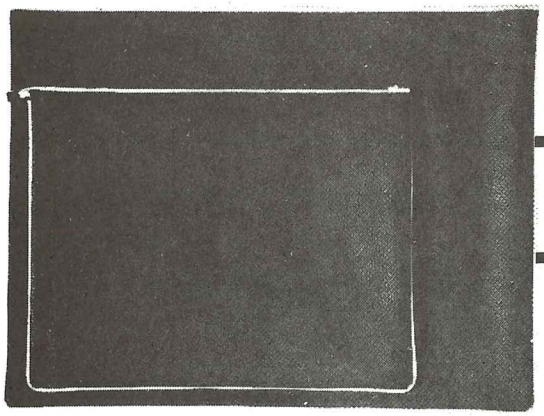
- Light gray circoment boards – shatter-proof – crack-proof – washable – extremely compact and light
- Plexiglass rulers and right angles
- Precision drafting machines of aluminum, impact-proof plastic joints and movable parts
- ALL PARTS ARE REPLACEABLE
- Used by technical personnel for desk use – in the home, or while traveling. Invaluable for engineers, scientists, designers, inventors, technicians, draftsmen, students, mechanics, teachers, etc.


ZEICHENMASCHINE
Gebrauchsanweisung:
Zeichenpapier wie Schutzbogen auflegen und mit der Papierklemmschiene festklemmen.
Zeichenwinkel auf die Nullmarke ausrichten und festziehen.
Graue Schraube am Ankerbock links oben lösen. Maßstab mit dem Zeichenpapier parallel stellen und die graue Schraube am Ankerbock festziehen.
Die 15 zu 15° – Rasterung arbeitet am besten, wenn die graue Schraube am Zeichenkopf nur ca. eine viertel Umdrehung gelöst wird. Nach der Einstellung die Schraube festziehen.
Die 15 zu 15° – Rasterung läßt sich durch leichte Drehung nach links der 2 Stellschrauben (unter der grauen Feststellschraube) am Zeichenkopf, regulieren.

UNIVERSAL DRAFTING AND DRAWING MACHINE

MODEL NO.	SIZE	PRICE
403	14½" x 21½"	$26.95
403/408	14½" x 21½" with zippered carrying case	$29.95

- The drafting paper is secured with sliding paper clamps.
- Zero adjustment at the angle with self-adjusting protractor.
- Plexiglass right angle with special edge for water color.
- Angle is graduated in inches and the protractor is graduated in degrees.
- Protractor with magnifying indicator for easy reading.
- Snap Action in 15° increments.



Zippered carrying cases are available for all models. Black leather grain plastic.

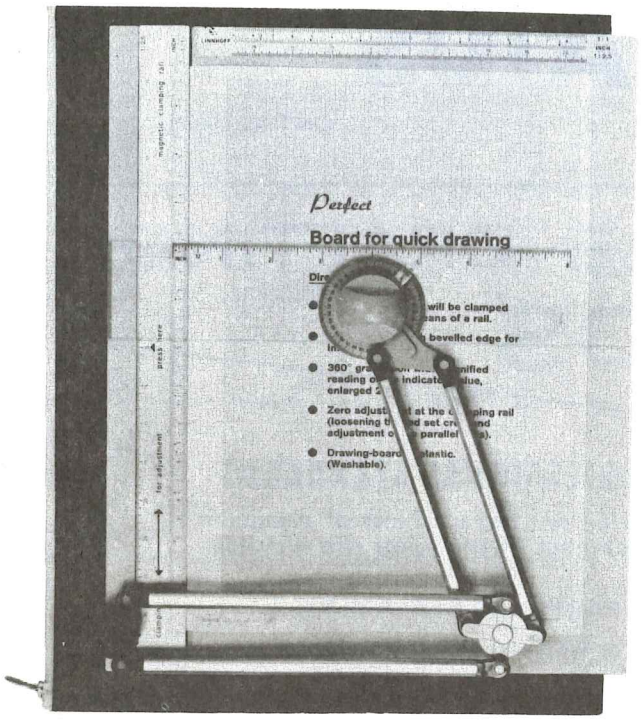
TERMS: NET 30 DAYS TO RATED FIRMS

F.O.B.: SOMERVILLE, N.J.

HUNTER ASSOCIATES

792 PARTRIDGE DRIVE • SOMERVILLE, N.J. 08876

PHONE: Area Code (201) 526-8440

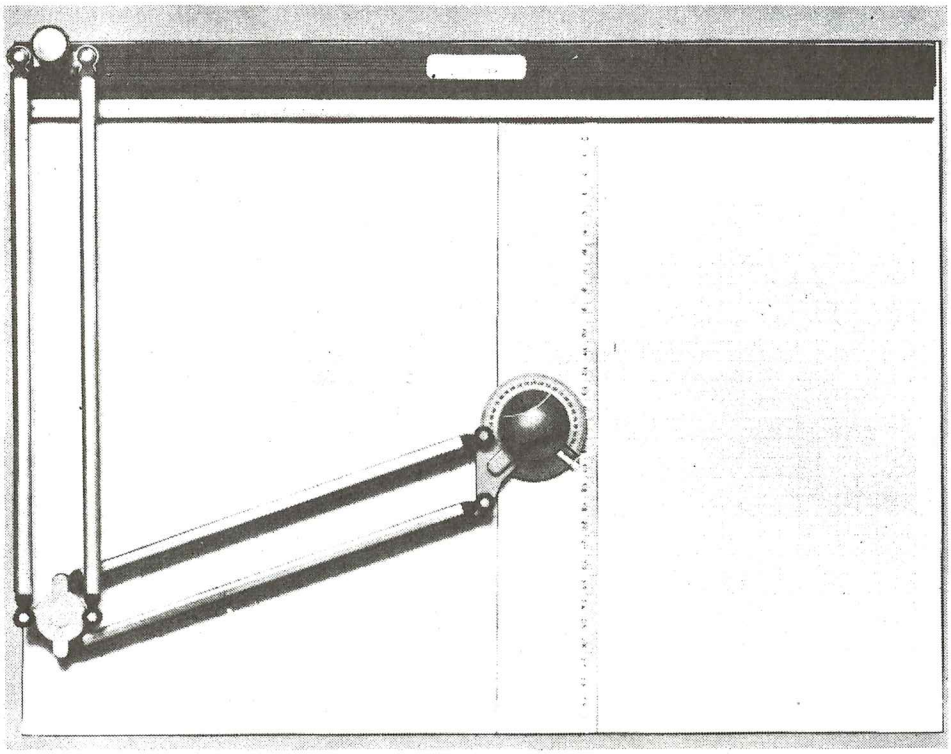


PERFEKT* "Miniature" Drafting Board with Magnetic Clamping Rail.

Model 400 PERFEKT*

MODEL NO.	SIZE	PRICE
400	10" x 13"	$19.90
400/407	10" x 13" with carrying case	$22.90

- Recessed magnetic paper clamping rail movable to the top and bottom.
- Clamping rail and horizontal measure are graduated in both inches and millimeters.
- Protractor has magnifying indicator for easy reading.
- Snap action in 15° increments.



PERFEKT* Drafting Machine and Clipboard Combination.

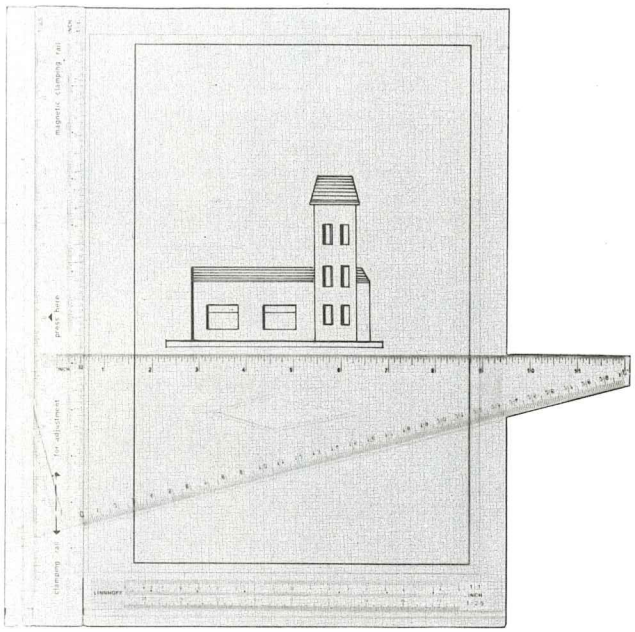
Model 402 PERFEKT*

MODEL NO.	SIZE	PRICE
402	13" x 18¾"	$25.25
402/405	13" x 18¾" with Zippered Carrying Case	$28.25

- The Drafting paper is securely fastened to the board by means of a spring loaded clamping rail.
- The clamping rail is graduated in both inches and millimeters for vertical measurements.
- Includes a complete precision made drafting machine with straight edge graduated in inches and protractor graduated in degrees.
- Requires no additional scale or triangle for accurate, precise drafting work.

HUNTER Portable Drafting Boards are currently being used by personnel of:

- LAWRENCE RADIATION LABORATORIES
- STANDARD OIL COMPANY
- RAYTHEON
- ADDRESSOGRAPH–MULTIGRAPH
- BORG–WARNER
- GENERAL PRECISION
- PERKIN–ELMER
- BELL TELEPHONE LABORATORIES
- COLUMBIA UNIVERSITY
- NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
- E. I. du PONT de NEMOURS
- GENERAL ELECTRIC
- ETC.

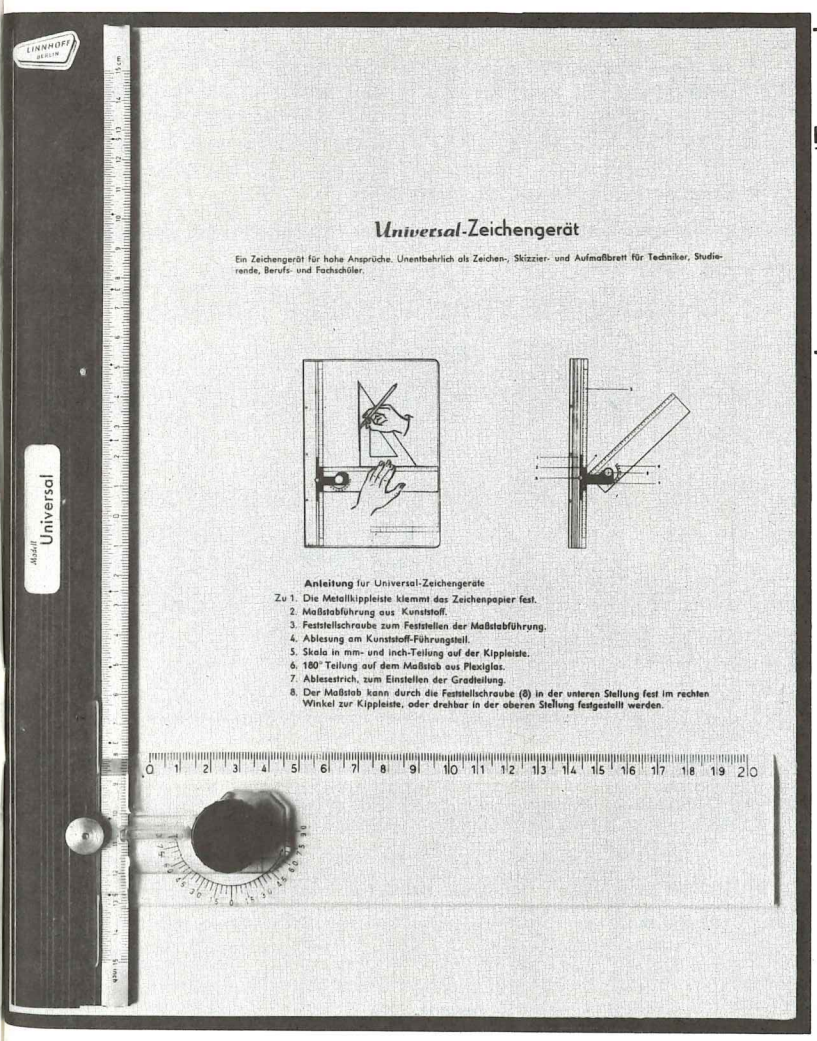


DRAWING BOARD with two position angle

MODEL NO.	SIZE	PRICE
419	10" x 13"	$13.85
419/407	10" x 13" with carrying case	$16.85

- Light Gray Plastic with dull silky surface
- Guide Groove for the drawing angle
- Magnetic clamping rail, movable to the top and bottom
- Scale graduation 1:1 and 1:2:5 mounted horizontally and vertically
- Drawing angle of plexiglass, with non-blotting edge, to be used on both sides formed by a guide rail offset by 15°
- Stencil on angle for drawing arrows, indicating measurements

---


LINNHOFF
Universal-Zeichengerät
Ein Zeichengerät für hohe Ansprüche. Unentbehrlich als Zeichen-, Skizzier- und Aufmaßbrett für Techniker, Studierende, Berufs- und Fachschüler.
Anleitung für Universal-Zeichengeräte
Zu 1. Die Metallkippleiste klemmt das Zeichenpapier fest.
2. Maßstabführung aus Kunststoff.
3. Feststellschraube zum Feststellen der Maßstabführung.
4. Ablesung am Kunststoff-Führungsteil.
5. Skala in mm- und inch-Teilung auf der Kippleiste.
6. 180° Teilung auf dem Maßstab aus Plexiglas.
7. Ablesestrich, zum Einstellen der Gradteilung.
8. Der Maßstab kann durch die Feststellschraube (8) in der unteren Stellung fest im rechten Winkel zur Kippleiste, oder drehbar in der oberen Stellung festgestellt werden.
Modell Universal

TECHNIK "MINIATURE"

MODEL NO.	SIZE	PRICE
406	10" x 13"	$15.95
406/407	10" x 13" with carrying case	$18.95

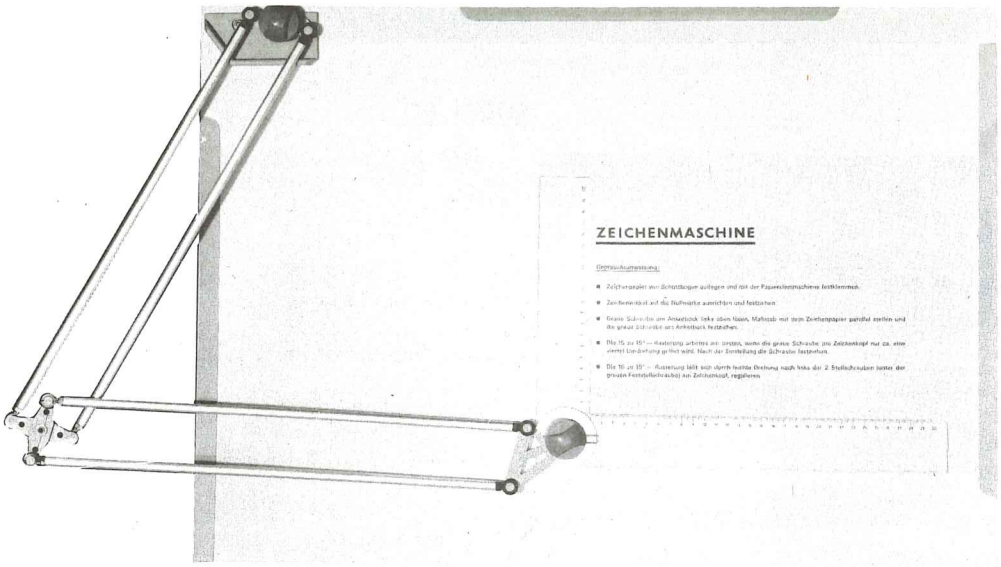
TECHNIK STANDARD

404	13" x 18-3/4"	$20.95
404/405	13" x 18-3/4" with carrying case	$23.95

- Spring loaded paper clamping rail
- Plexiglass ruler
- Clamping rail is graduated in both inches and millimeter
- 180° graduation on the plexiglass scale
- Reading dash for setting graduations
- Ruler swivels by adjusting screw

MODEL NO. 406 AND 404

OLYMPIA UNIVERSAL DRAFTING & DRAWING MACHINE



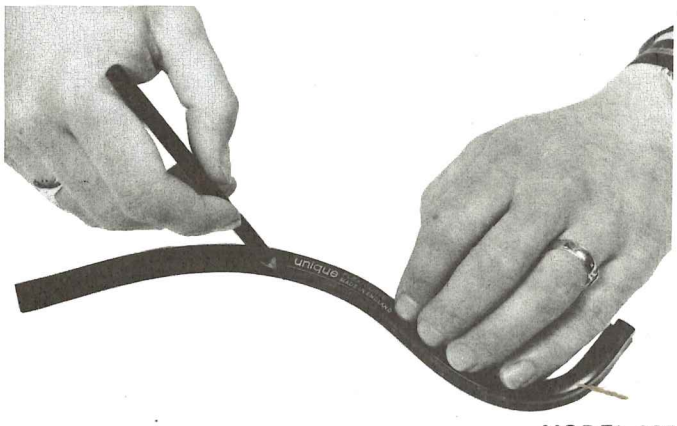
OLYMPIA* Universal Drafting & Drawing Machine with board.

MODEL NO.	SIZE	PRICE
416	19-1/2" x 27-1/2"	$44.85
416/417	19-1/2" x 27-1/2" with zippered carrying case	$49.85

Designed for use where a large drawing board is needed and where space is at a premium. The drafting machine can be used on any board up to 28" x 40". Beautifully constructed with all precision measurements and featuring a drafting machine with optimum stability and reliability.

- The Drafting paper is secured with extra large sliding clamps.
- Zero adjustment at the angle with self-adjusting protractor
- Plexiglass right angle withsspecial bevelled edge for use with water color.
- Angle is graduated in inches and the protractor is graduated in degrees.
- Protractor with magnifying indicator for easy reading.
- Snap action in 15 degree increments.

FLEXICURVE



MODEL 927

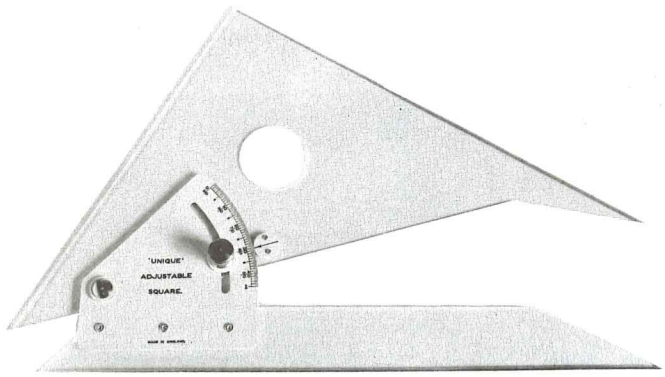
A uniquely constructed device which can easily be bent to correspond to any conceivable planar curve. Special composite construction includes a lead core, steel spring reinforcement and PVC outer cover. Strong, durable and stable. Specially designed for drawing curves with pencil or pen.

The flexicurve is replacing French curves in Automotive, Aeronautical, Shipbuilding, Architectural and general engineering drafting. Absolutely indispensable for drawing engineering and scientific graphs. Also used for copying profiles.

Prices:

12"	15"	18"	24"	30"	36"
$1.50	$1.90	$2.30	$2.80	$3.50	$4.00

UNIQUE DELUXE ADJUSTABLE TRIANGLE

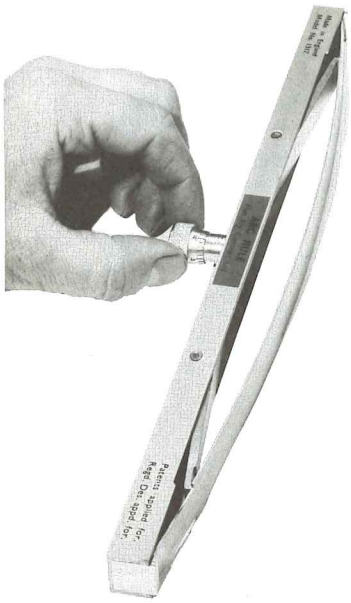


A precision instrument for Engineers, Architects, and Draftsmen. Fully graduated arcs from 0 — 90° independently showing internal and external angles.

These triangles are supplied in clear, fluorescent green and orange. .125" thickness.

Model No.	Price
No. S00/8" Clear Acrylic,	$5.40 "Unique"
No. S00/10" Clear Acrylic,	6.10 "Unique"
No. 790/12" Clear Acrylic,	6.95 "Linex"
No. GFS0/8" Green Fluorescent,	5.40 "Unique"
No. GFS0/10" Green Fluorescent,	6.10 "Unique"
No. 791/12" Green Fluorescent,	6.95 "Unique"
No. 772/8" Orange Fluorescent,	5.40 "Unique"
No. 782/10" Orange Fluorescent,	6.10 "Unique"
No. 792/12" Orange Fluorescent,	6.95 "Unique"

ARC RULE



Enabling the TRUE ARC of any radius in excess of 27.25" to be drawn accurately.

- *Approved by the "Council of Industrial Design."*

To obtain the true arc of any radius from 27.25" to 216.9" note the required radius on the Calibration Chart. Opposite that radius on the chart is a micro reading. By setting the micro control of the Arc Rule to that reading, the true arc of the required radius is formed by the blade of the Arc Rule. The arc can then be drawn.

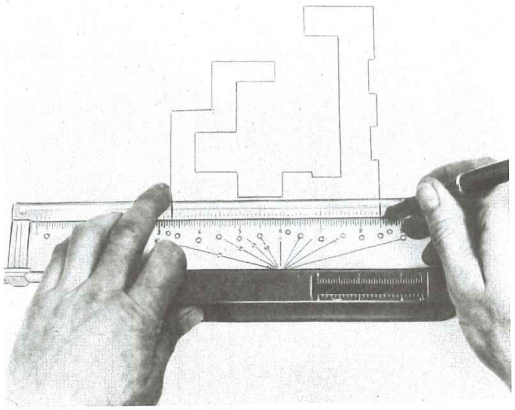
Alternatively the Arc Rule can be used, without reference to the Calibration Chart, to produce true arcs between the radii of 27.25" and infinity. Frequently a large radius is required to blend into smaller radii at either end, these should first be drawn in lightly. The Arc Rule is laid so that the blade is a tangent to the smaller radii and the larger radius can be drawn in.

In cases where a camber rather than a radius is specified, the chord line should be construced first then bisected. The rise of the arc above the chord is marked of on the bisector. The Arc Rule is then adjusted until the blade passes through the three points. viz, the two ends of the chord and the point marked off on the line bisecting the chord.

MODEL 510 ARC RULE

PRICE: $20.50

THE LINEMASTER

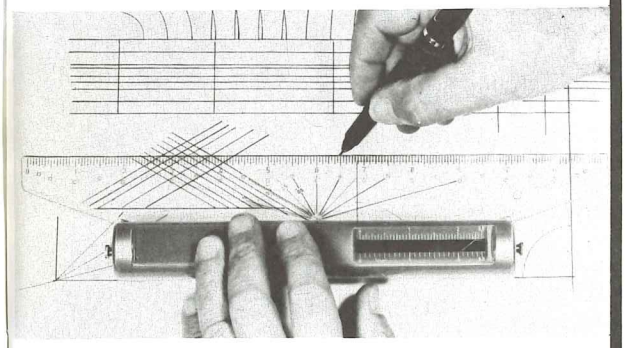


MODEL 505

The Linemaster is basically an advanced form of the Rol-Ruler, incorporating every feature and function of the Rol-Ruler but with the addition of a finely serrated retractible outrigger gripper bar which holds the pencil firmly at any desired point. To draw vertical lines simply press lightly on the outrigger. To draw horizontal lines simply release pressure. Makes geometric figures in one continuous line without lifting pencil from paper.

MODEL 505 **PRICE: $8.95**

The ROL-RULER MODEL 504

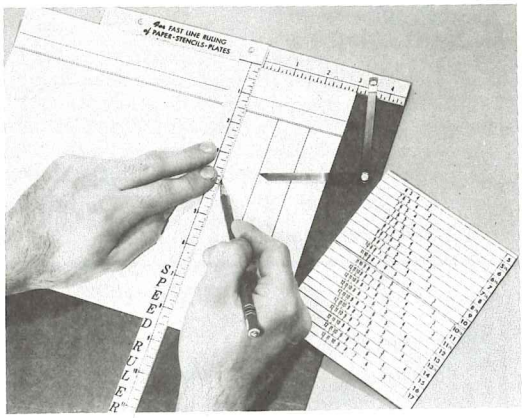


A handy, compact precision instrument. Ideal for layout and sketching applications.

- Horizontal and Vertical lines perfectly spaced — calibrated in 10ths and 16ths of an inch.
- Ruler rolls back and forth — no need to lift
- Scaled in degrees for cross hatching applications
- Makes circles and arcs with diameter up to 22"
- Transparent ruler with non-smearing tip.

MODEL 504 **PRICE: $6.95**

SPEED RULER



In Seconds

- RULED FORMS
- CHARTS
- GRAPHS

AND YOU ALWAYS COME OUT EVEN

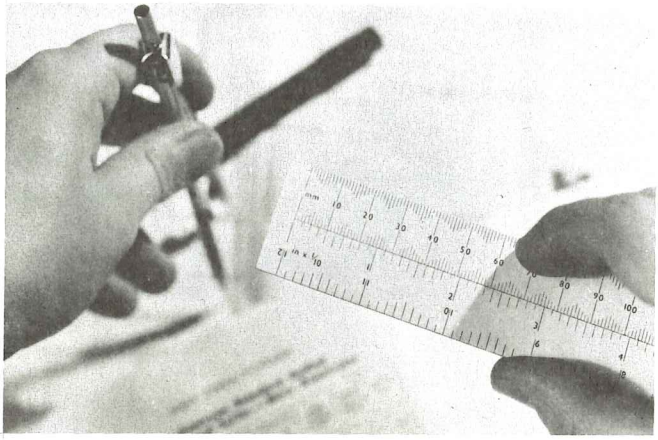
Just set the SPEED RULER for the size sheet you want ruled . . . it will divide any sheet from 5 to 17 inches into perfect parallel lines at desired intervals — no need for calculations, measurements, or pointing off. Ideal for making mimeo or ditto stencils, plates for offset duplication. Enables user to custom-rule charts, graphs (both vertical and horizontal) for any purpose — and you always come out even in the end. Rule forms to your own requirements. Terrific timesaver for instructors, students, accountants, administrators, hospitals, group activity directors, statisticians, manufacturers, quality control offices, engineers, draftsmen, printers, sales and advertising people, anyone who works with charts or figures. Pencil, ball point pen, or ink pen can be used for ruling.

CATALOG No. 501 **PRICE: $13.95**

ENGLISH/METRIC CONVERSION DEVICES

Unique Conversion Scale

MODEL 502

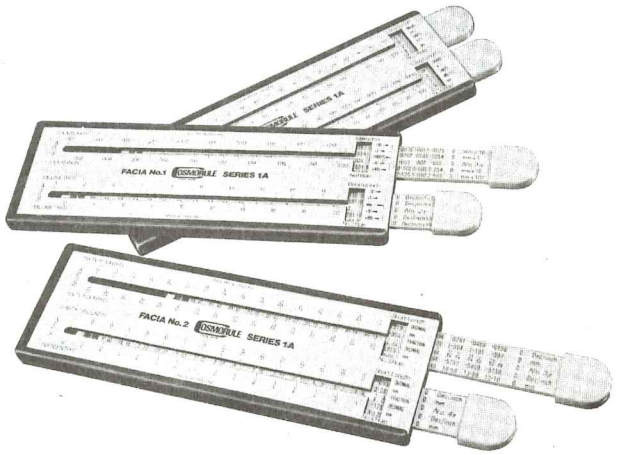


This is basically a 12" two sided scale with a metric and English scale on each side. The metric scale on each side is calibrated in millimeters while the English scale on one side is calibrated in 1/10" divisions and on the other side in 1/32" divisions. This device is of considerable utility in general engineering and drafting in converting from metric to decimal or standard English or vice-versa.

MODEL 502 **PRICE: $4.50**

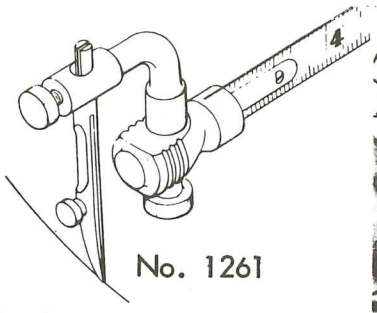
COSMORULE CONVERSION SLIDE RULE

The Cosmorules are a set of 2 pocket-sized conversion slide-rules, which, by means of reversible and interchangeable facias and slides permit a rapid and simple conversion in both directions among the important English/Metric units, including linear measure, area, volume, capacity (litres etc.), consumption (Gal./hr., etc.), temperature, power, pressure and mass.

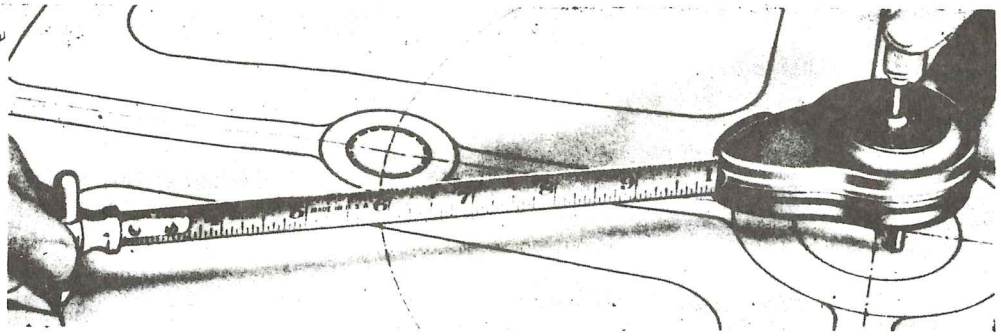


MODEL 503 set of 2 Cosmorules Ia and Ib **PRICE PER SET: $5.95**

OMICRON BEAM COMPASS



No. 1261 Omicron Ruling Pen Adapter

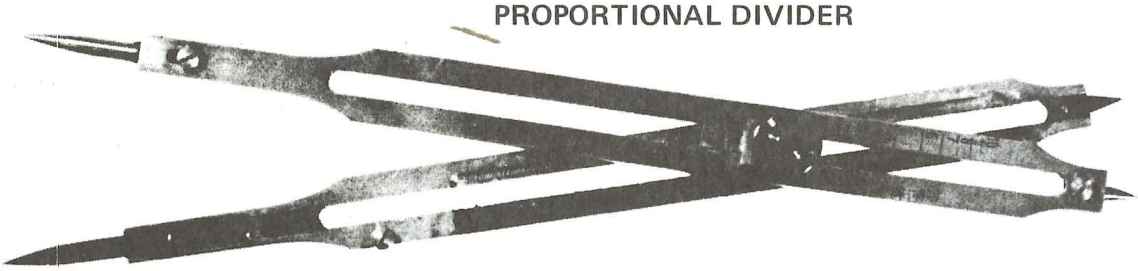


MODEL No. 1260 Omicron Beam Compass

An ingeniously constructed unit, based on a flexible steel tape. Adjustable to 72" radius. Steel tape graduated in 1/16". Includes ruling pen adapter No. 1261.

PRICE: $12.00

PROPORTIONAL DIVIDER



Extremely useful for quickly transferring dimensions in an adjustable step-up or step-down ratio.

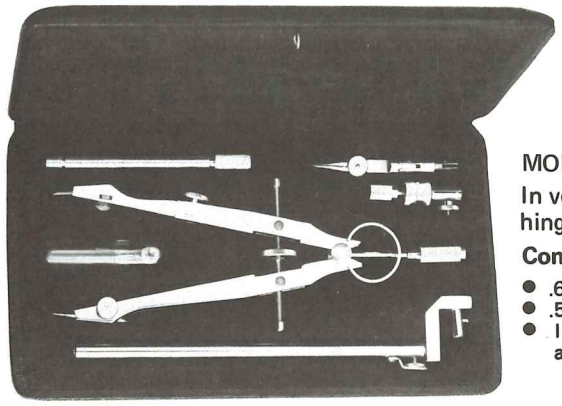
MODEL 1276 Proportional Divider

High quality Nickel Silver with rack and pinion movement in velvet lined case. Divided for lines from 3/4 to 10. Divided for circles from 3 to 20. 8" length. Replaceable steel points.

PRICE: $22.00

HUNTER DRAFTING INSTRUMENTS

Precision instruments for the professional — heavy Nickel Plated.
Recognized the world over for their accuracy and fine workmanship.



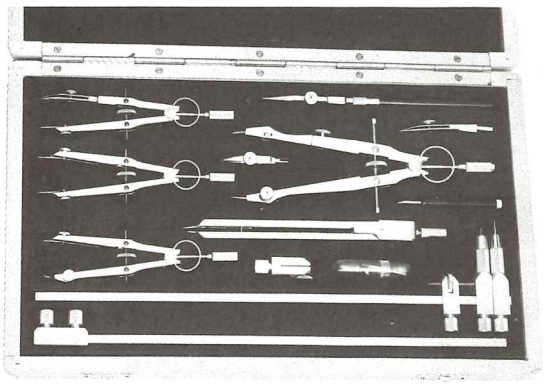
MODEL NO. 280 BC

In velvet lined pocket case with hinges and pin lock

Contains:

- .6" Giant Bow
- .5" Beam Compass Adapter
- Interchangeable Pen, Pencil and Divider Parts

Price: $12.95



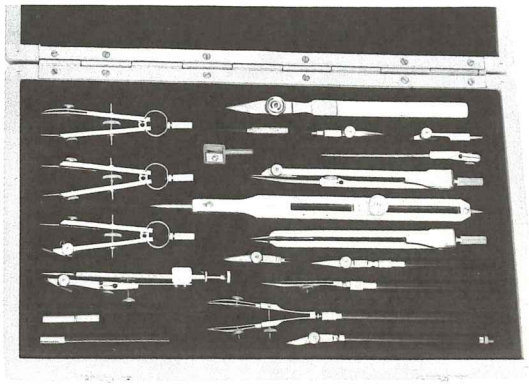
MODEL NO. 599

In velvet lined polished wood case, hinged

Contains:

- 11" Square Beam Compass with
- 11" extension bar and coupling attachment, divider point, pen and pencil parts.
- .6" Giant bow with interchangeable pen and pencil parts
- .6" Mechanical lead holder
- .6" Divider with RICHTER-type straightening device
- .4½" heavy duty ring head bow with center adjustment and replaceable needle points, bow pencil
- .4½" heavy duty ring head bow with center adjustment and replaceable needle points, bow divider
- .4½" heavy duty ring head bow with center adjustment and replaceable needle points, bow pen
- Spare parts kit

Price: $34.50



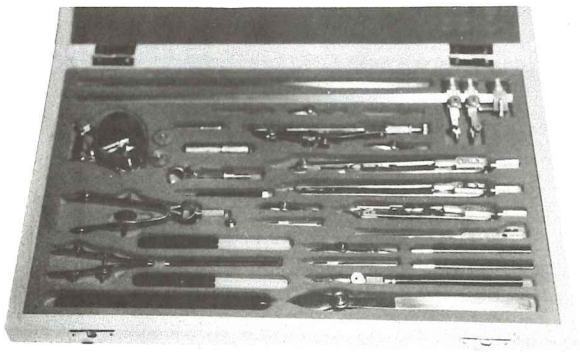
MODEL NO. 1821

In velvet lined polished wood case, hinged

Contains:

5½" Compass with Gear Head Straightening device with Pen and Pencil Parts
.3¾" Lengthening Bar
.5½" Divider
.4¼" Ruling Pen
.5½" Ruling Pen
.5¾" Swedish Pen
.4¾" Contour (Swivel) pen
.5¾" Railroad Pen with Side Wheel
.3½" Bow Pencil with center wheel adjustment and interchangeable needle points
.3½" Bow Pen with center wheel adjustment and interchangeable needle points
.4¾" Single spring drop bow with pen and pencil parts
.8" Proportional Divider, aluminum, graduated for lines and circles
Extra Handle
Lead Box
Screw Driver

Price: $33.50



MODEL No. P25H

In velvet lined polished wood case, hinged.

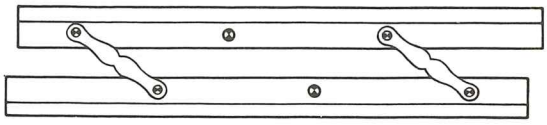
Contains:

- 12" Square beam compass with 10" extension bar and coupling attachment with divider point, pen and pencil part
- Dotting apparatus for lines
- Double spring drop bow with pen and pencil part
- 6½" compass with straightening device with pen and pencil part and extension bar
- 6½" divider
- 4¾" compass with straightening device and pen and pencil part
- 6" Swedish ruling pen with aluminum handle
- 5½" ruling pen
- 5½" railroad pen
- 4½" bow compass, divider
- Drawing pen with nib 0.2 mm
- 2 extra nibs and reservoirs 0.4 and 0.6 mm
- Joint for pen holder
- Spare parts kit, lead box, 2 extra handles, screw driver

Price: $89.95

PARALLEL RULER

MODEL 715

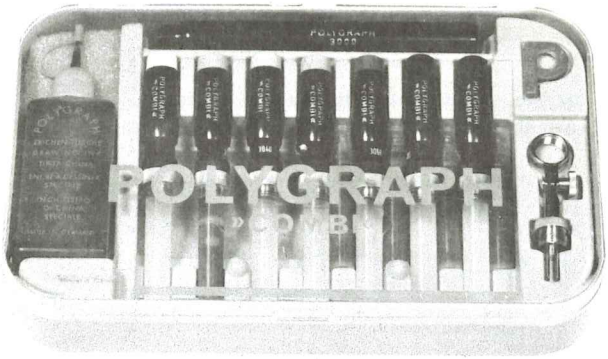


Precisely constructed of acrylic, with special bearing construction to automatically provide a wear take-up and prevent side play. All metal parts plated.

Price:	12"	15"	18"
	$3.25	$4.00	$4.75

POLYGRAPH TECHNICAL PENS No finer technical pen available

COMBI-CARTRIDGE PENS



The COMBI SERIES are designed specifically for drafting use. They may be hand-held at a natural writing angle for drawing or lettering. The pen sections will fit a common handle and they may also be used in most Giant Bow compasses by using the special adapter.

NO. 48-3594

Set in Transparent Case

Containing 4 interchangeable drawing point sections (sizes: 00 (0.2mm), 0 (0.3mm), 1 (0.4mm), 2 (0.5mm), handle, point wrench and India Ink.

Price Complete: $16.00

NO. 3057

Set in Transparent Case

Containing Seven Combi Tips (0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.2 mm), Combi Barrel, Combi Adapter (stub diameter 4 mm), bottle of drawing ink No. 2300 Black, Seven ink cartridges No. 300 Black & Red

Price Complete: $23.85

NO. 3000

Polygraph Combi Cartridge Pens

Point Sizes; 0.18, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 0.9, 1.0, 1.2 mm)

Price: $4.95 each

NO. 300

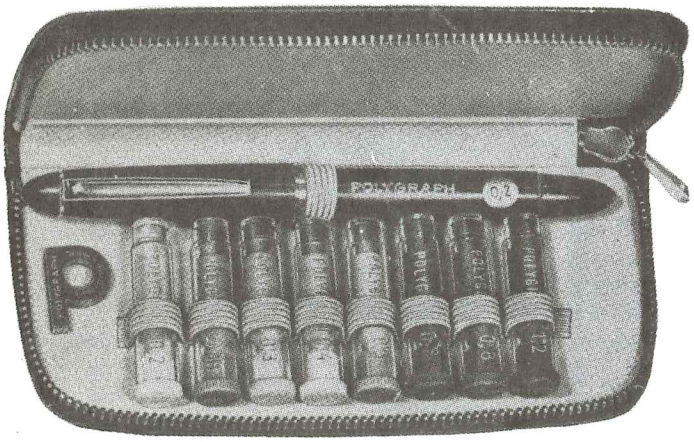
Polygraph Combi Ink Cartridges

Colors: Red, Blue, Green, Yellow, Brown

Price: $ .10 each

- **Cartridges are refillable or replaceable.**
- **Utilizes all popular brand cartridges and ink.**
- **Double threaded barrels can be fitted with combi cartridge tips at both ends.**

FOUNTAIN PENS



The Polygraph Technical **FOUNTAIN PENS** utilize the same point sections as the combi series, but include a large reservoir which is filled by plunger action after immersing in the writing fluid. Designed for drafting and every day use.

NO. T3E

Set in Transparent Box (not illustrated)

Containing Pen No. 2000 with 0.2 tip, two tips (0.3, 0.5 mm), extra box for additional tip

Price Complete: $8.95

No. T8L

Set in Zippered Leather Case

Containing Pen No. 2000 with 0.2 tip. Seven Tips (0.18, 0.3, 0.4, 0.5, 0.6, 0.8, 1.2 mm), extra box for additional tip

Price Complete: $20.40

NO. 2300

Polygraph Drawing Ink (23 cc.)

Colors: Black, Red, Blue, Green, Yellow, Brown

Price: $1.08 each

NO. T6L

Set in Zippered Leather Case (not illustrated)

Containing Pen No. 2000 with 0.2 tip. Five tips 0.3, 0.4, 0.5, 0.6, 0.8 mm, extra box for additional tip.

Price Complete: $15.00

NO. 2000

Polygraph Fountain Pens

Point Sizes: 0.18, 0.2, 0.3, 0.5, 0.5, 0.6 0.7, 0.8, 0.9, 1.0, 1.2 mm

Price: $3.95 each

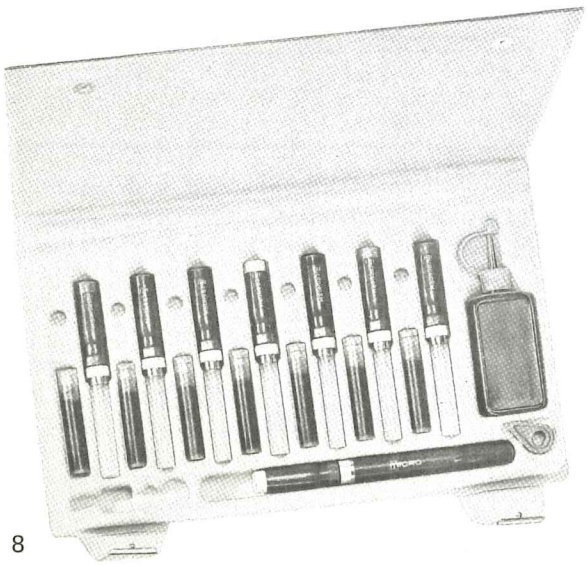
NO. 200

Polygraph Points for No. 2000 and No. 3000 Pens

Individually boxed and color coded. Point Sizes: 0.18, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.2 mm

Price: $2.00 each

MICRONORM RESERVOIR PENS



The **MICRONORM SERIES** are designed to be held vertically to the drawing surface, and when used in this fashion will produce consistently precise close-tolerance line widths. Highly desireable for microfilm. Should primarily be used with lettering equipment or automatic drafting equipment. These pens include an ink reservoir.

NO. 43-0594

Set in Transparent Case

Containing 4 reservoir point sections with point sizes 00, 0, 1, and 3 handle, point wrench and bottle of India Ink.

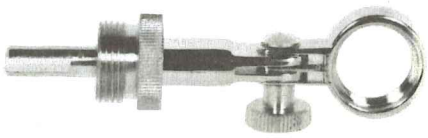
Price Complete: $17.50

NO. 43-0598

Set in Plastic "book-form" Case

Contains 8 reservoir point sections with point sizes 000, 00, 0, 1, 2, 3, 4, and 5, handle, point wrench and bottle of India Ink.

Price Complete: $31.50

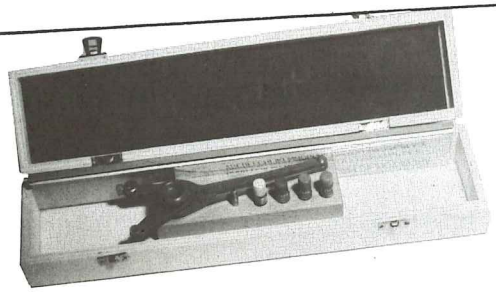


NO. 48-0611

Adapter to adapt all Polygraph reservoir pens for use in most giant bow compasses.

Price: $2.50

HUNTER TECH-GRAPH Lettering Sets



MODEL TG100 "COMET"

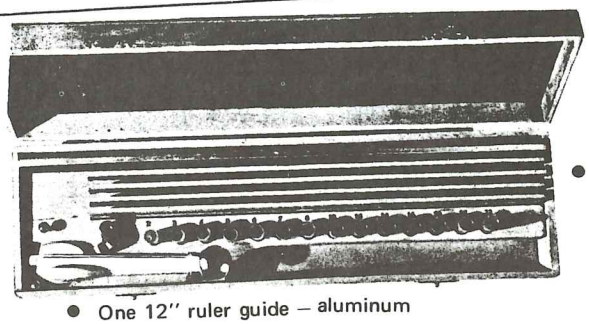
Contains the following:

- Handsome cabinet of selected kiln dried basswood with satin lacquer finish
- One 11" ruler guide – aluminum
- One Template with alphabets 3.5, 4.5, 6.5 mms.
- Contains upper and lower case letters, symbols and numerals
- Three Tubular Pens No. 3, 5, and 7 with plungers
- One adjustable Scriber for vertical and slant lettering
- One lead holder insert
- One lead pencil sharpener

Price Complete: $23.95

TECH-GRAPH TUBULAR PEN with FLOW-CONTROL

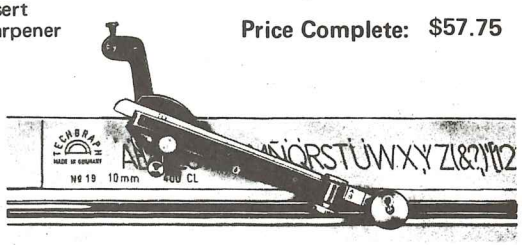
SUITABLE FOR ALL INKS



MODEL TG300 "UNIVERSAL"

- Handsome cabinet of selected kiln dried basswood with satin lacquer finish.
- One 12" ruler guide – aluminum
- Four templates with alphabets 2, 3, 4, 5, 6, 10, 16, and 25 mms. Contains upper and lower case letters, symbols and numerals.
- Fourteen Tubular Pens Nos. 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 20, 25, and 32 mms. with plungers.
- One adjustable Scriber for vertical and slant lettering
- One lead holder insert
- One lead pencil sharpener

Price Complete: $57.75

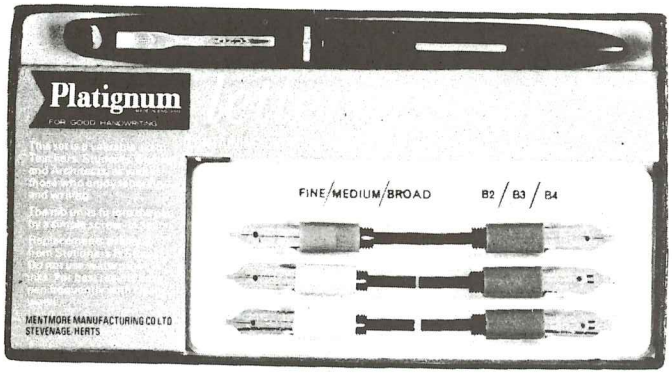


Precision Adjustable Scriber

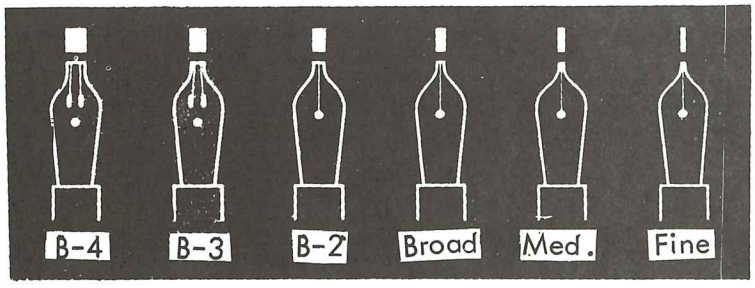
PRACTICAL
VERSATILE
INEXPENSIVE
A FOUNTAIN PEN PLUS!

Platignum Lettering Set

For LETTERING, CALLIGRAPHY, SKETCHING, Etc.



This set extends the use of a normal fountain pen into the realm of craftsmanship. It is a valuable aid to all those who are interested in Lettering, whether it is for work of a formal character or for the quick informal notice. Art Students, Teachers, Commercial Studios and Architects etc., will find this versatile article a very useful piece of equipment in their daily routine, but it can also provide a need for those who simply like lettering and writing for creative pleasure. It is mobile, for it can easily be carried in one's pocket or satchel. It has the practical advantage of not having to constantly fill a nib reservoir with ink, as with a normal lettering pen, and nib units can be easily replaced when broken or worn, by a simple screw-in action. There are six widths to work with which are illustrated (actual size) below.



No. 1229

Set Consists of FOUNTAIN PEN and SIX Interchangeable Nibs in Attractive Box.

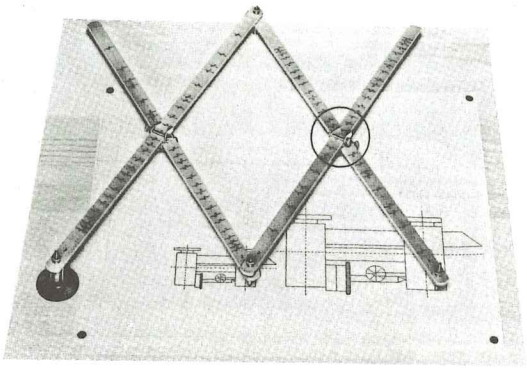
Complete $6.00

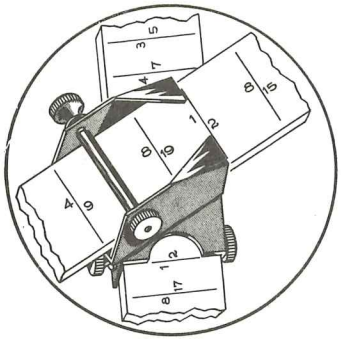
Extra Nibs (all degrees) $ 6.40 Doz.

"QUICK CHANGE" PRECISION PANTOGRAPHS

For Enlarging — Reducing — Reproducing

Reg. U.S. Pat. Off. Patent No. 3,184,850 Instructions Copyrighted.





No. 1290

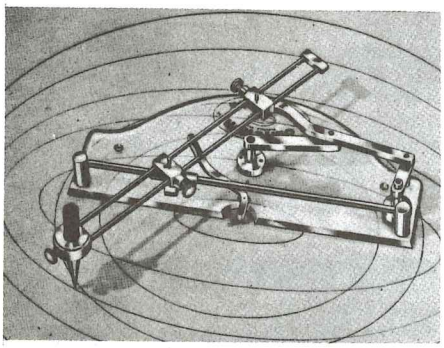
"QUICK CHANGE" adjustment is exclusive feature. Slight pressure with finger permits micrometer setting to desired ratio. All bars accurately numbered. 26 and 32 given ratios — but adjustment feature permits setting to **any** desired ratio. Complete detailed instructions furnished. Instruments completely assembled.

ea.

No. 1290 "Quick Change" — **All Aluminum Pantograph,** 21 in. long, metal bars ¾" wide by 3/16 in. — 26 ratios — for **enlarging — reducing — reproducing** (1:1) Rest, Tracer and Pencil Parts nickel plated. Non-friction foot. With extra steel point for technical work. In attractive cardboard box, completely assembled, with accessories and detailed instructions. $15.90

No. 1290A "Quick Change" — **All Aluminum Pantograph,** same as above, but **31 in. long,** with **32 ratios.** In attractive cardboard box, completely assembled, with accessories and detailed instructions. $21.50

OMICRON ELLIPSOGRAPH



No. 1300

The OMICRON Ellipsograph has a capacity of 12 inches major axis and within its capacity all sizes, shapes and projections may be drawn. Either pencil, pen or scriber work can be done.

The special linkage system eliminates all play and friction and guarantees accuracy and smooth operation.

ea.

No. 1300 OMICRON ELLIPSOGRAPH, for pencil work ... $18.00

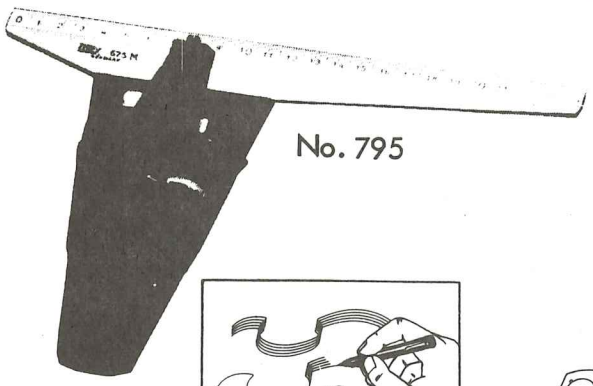
No. 1301 OMICRON ADAPTOR for Leroy pen, now included with above price.

HATCHING APPARATUS

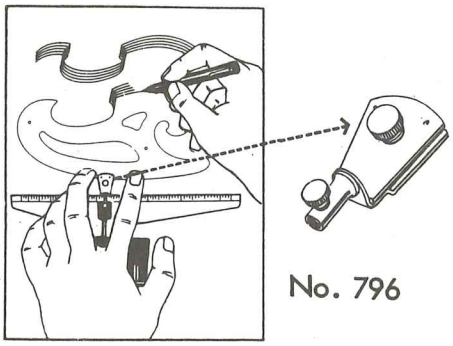
for hatching and drawing guidelines for lettering
unlimited hatching without moving the apparatus from the paper
housing made of shatterproof material
ruler of crystal-clear acrylic with tracing edge and division
the ruler moves at pressure on button
lies firmly when used (rubber plates)
easy to move
any interval between 0 and 6 mm (approx. 1/4") can be obtained
adjusting scale with magnifier
divisions (ruler and adjusting scale) 1/32 inch

No. 795 Hatching Apparatus in box with complete instructions . . . $ 13.50 ea.

No. 796 TEMPLATE HOLDER, to attach to Hatching Apparatus for Template or curve-hatching..... $ 2.50

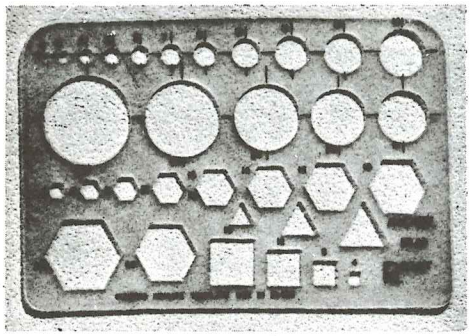


No. 795



No. 796

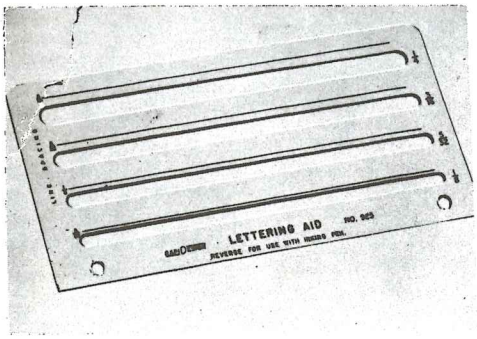
RAPIDESIGN TEMPLATES

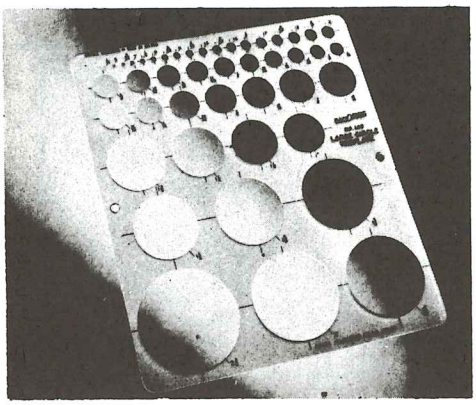


No. 1400-50 POCKET PAL - The most useful circles; hexes, deltas and squares. Clearly marked for maximum visibility and speed. Cutouts scaled from 1-1/16" up to 1". Size 3-5/16" x 5", with rounded corners . . . . . .

No. 1400-925 LETTERING AID Slots for letter sizes 1/8", 5/32", 3/16" and 1/4". Printed guide lines for equi-distant spacing. Size 6-13/16" x 3-5/16". THICKNESS .040 . . . . . .

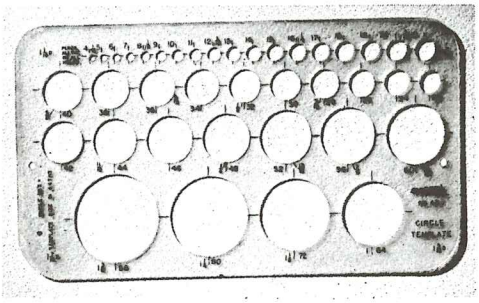
No. 1400-930 SLANTED LETTERING SET (new number) . . . . . .

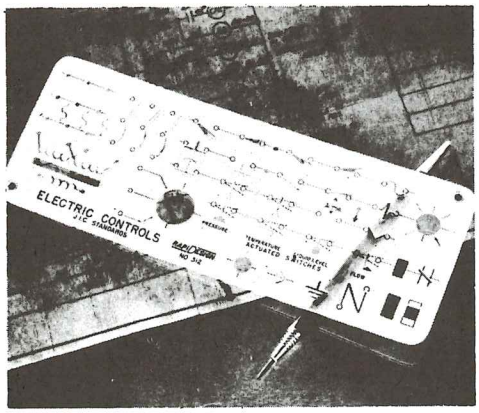




No. 1400-140 LARGE CIRCLE TEMPLATE - Contains 45 circles, diameter size 1/16" to 2-1/4" in varying increasing increments. Size 7-1/4" x 8-1/4". THICKNESS .030 . . .

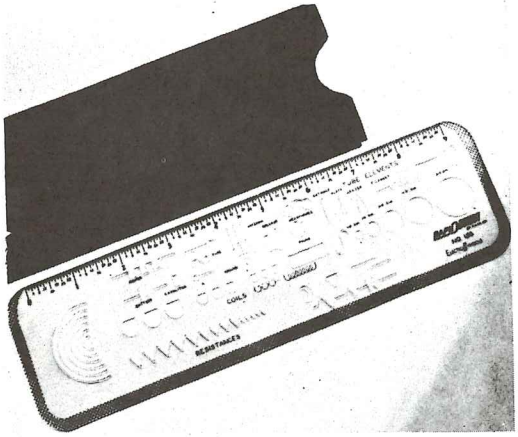
No. 1400-40 CIRCLE TEMPLATE Circle diameter sizes are from 1/16th to 11/32nds in increments of 1/64th of an inch; from 3/8ths to 3/4ths in increments of 1/32nds of an inch; from 7/8ths to 1 inch in increments of 1/16ths of an inch; from 1-1/8th to 1-3/8ths in increments of 1/8th of an inch. Size 4" x 7-1/4". THICKNESS .030 . . . .

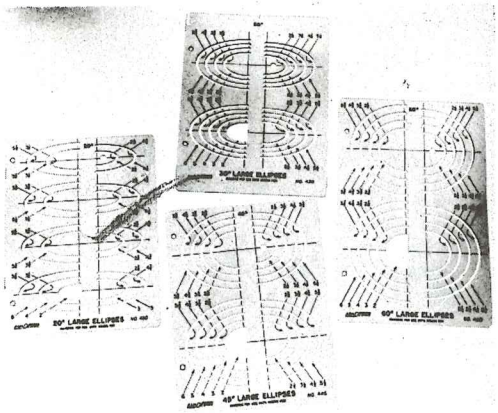




No. 1400-312 ELECTRIC CONTROLS TEMPLATE - J.I.C. Standard Symbols to assist in the depiction of circuits in electrically controlled machinery and electric automation of production processes.
Size 9" x 3-3/8".
THICKNESS .030 . . . . .

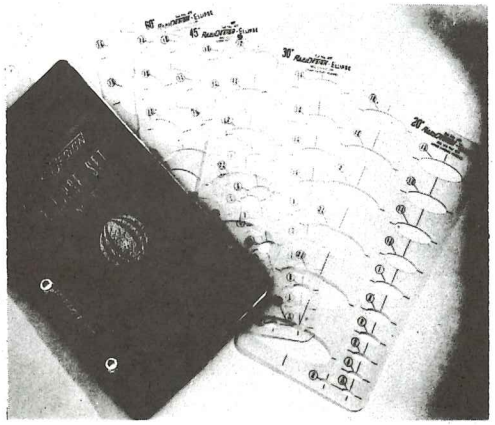
No. 1400-128 ELECTROSYMBOL By simple combination of the various contours, all symbols in the field of electronics can be easily constructed. For radio, electronics and television.
Size 2-7/8" x 10".
THICKNESS .030. . . . .



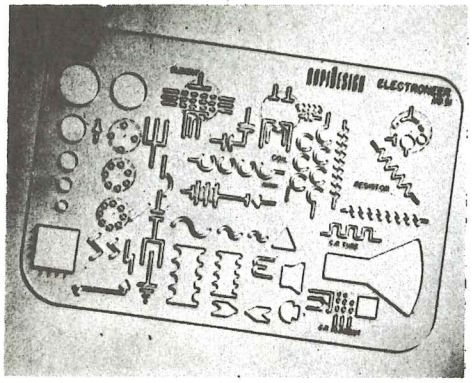


No. 1400-400 LARGE ELLIPSES - Set of 4 templates, 20°, 30°, 45°, 60° projection. Each template has a range of 2" to 6" size diameter, in increments of 1/8". Each template consists of 33 ellipses.
THICKNESS .060 . . . . .

No. 1400-401 ELLIPSE SET - Projections of 20°, 30°, 45°and 60°. Ellipse sizes are from 3/8" to 2-3/4", major axis. Sizes and center lines are detailed on negative side for permanence. Holes precision-cut with pencil point allowance. Size 4-3/4" x 9-3/4".
THICKNESS .030 . . . . . .

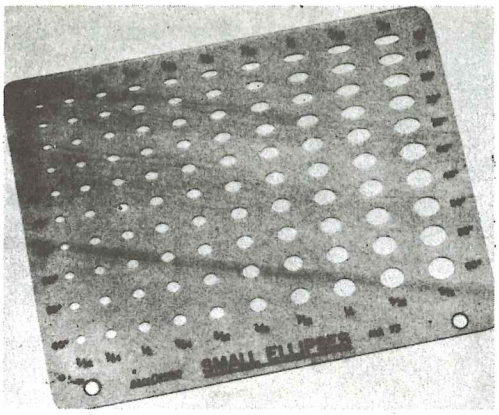


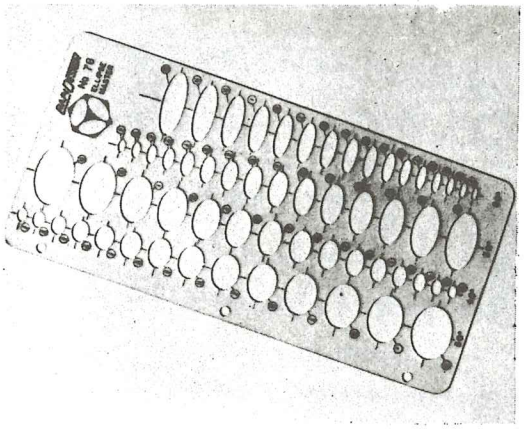
RAPIDESIGN TEMPLATES



No. 1400-31 ELECTRONEER All diagramatic elements of the electronic and cathode ray tubes are provided for, plus tube bases of the 4, 7 and 8 prong type, in addition to all symbols in the field of electronics. Edges of all symbol cut-outs are beveled. Size 4-1/4" x 6-1/2". THICKNESS .040 . . . . . .

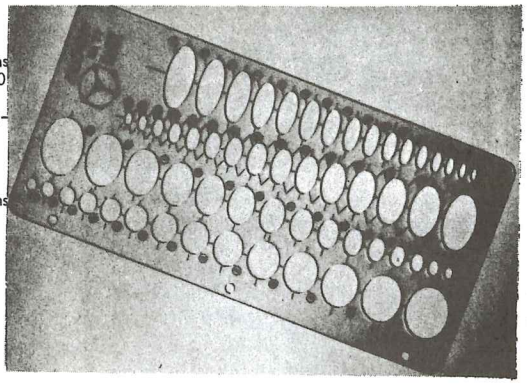
No. 1400-73 SMALL ELLIPSES TEMPLATE - 100 Ellipses. 10 projections from 15° to 60° in increments of 5° in ten sizes from 3/32" to 5/16". Size 6" to 4-3/4". THICKNESS .020 . . . . . .

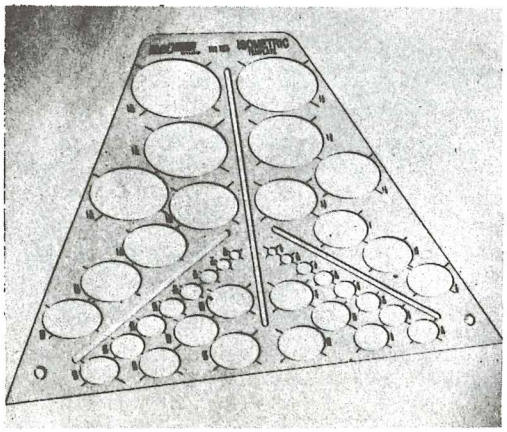




No. 1400-77 ELLIPSE MASTER Projections of 25° 35° 16', 45° and 60°. Contains 60 ellipses ranging in sizes from 1/4" to 1-3/8". Each ellipse precision milled to engraving machine accuracy. Size 5" x 10-7/16". THICKNESS .030 . . . . . .

No. 1400-78 ELLIPSE MASTER Projections of 20°, 30°, 40° and 50°. Contains 60 ellipses ranging in size from 1/4" to 1-3/8". Each ellipse milled to engraving machine accuracy. Size 5" x 10-7/16". THICKNESS .030 . . . . . .

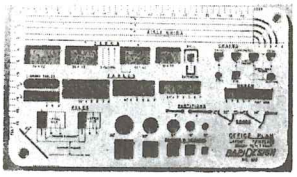


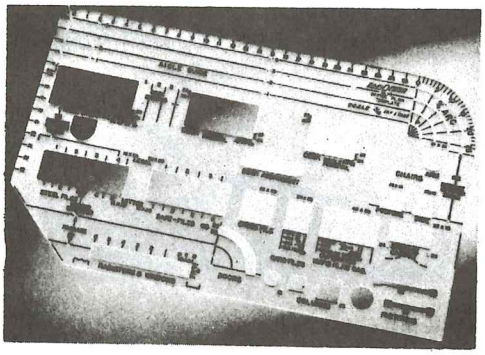


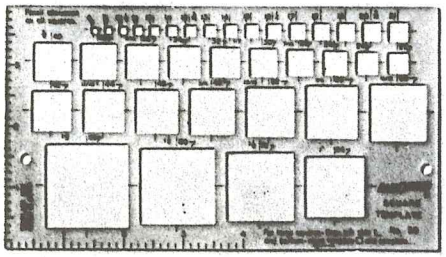
No. 1400-123 ISOMETRIC TEMPLATE-38 Ellipses of 35° 16' from 1/8" to 1-9/16". Ingenious slot arrangement allows drawing of all three axes without turning the template. THICKNESS .040 . . . . . .

No. 1400-610 OFFICE PLAN LAY-OUT TEMPLATE in 1/8" scale. Easy depiction of most office furniture and equipment. Size 6" x 5-3/8". THICKNESS .030 . . . . . .

No. 1400-710 SPEEDI-PLAN - Office layout and work flow. For efficient lay-out and visual representation of paper work flow. Scale 1/4" - 1'. Size 5" x 8". THICKNESS .030 . . . . . .

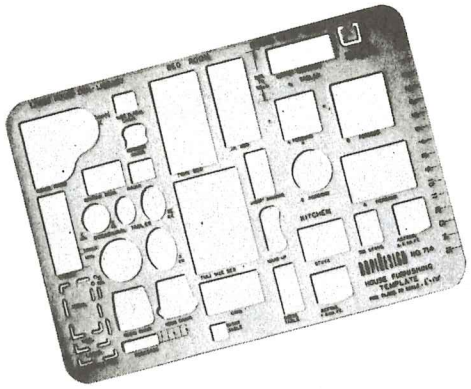






No. 1400-30 SQUARE TEMPLATE Square sizes are from 1/16th to 11/32nds in increments of 1/64th of an inch; from 3/8ths to 3/4ths in increments of 1/32nds of an inch from 7/8ths to 1 inch in increments of 1/16th of an inch; from 1-1/8th to 1-3/8ths in increments of 1/8th of an inch. Squares up to 4" may be constructed by using the sides. Size 4" x 7-1/4". . . . . .

No. 1400-714 HOUSE FURNISHING TEMPLATE - To plan your furniture and appliance arrangement before or after the house is completed or when furniture re-arrangement is contemplated. Scale 1/4" - 1'. Size 8" x 5-1/2". THICKNESS .030 . . . . . .



RAPIDESIGN TEMPLATES
INDEX AND PRICE LIST

Template No.	DESCRIPTION	
GENERAL		
10	Parallel Spacer	$ .75
18	Master General Purpose	3.00
19	Sketch Mate	1.75
30	Square	1.75
40	Circle	1.25
50	Pocket Pal	1.50
51	Triangle and Diamond	1.75
75	Radius Guide	1.25
76	Radius Master	2.00
140	Large Circle	2.50
540	Decimal Circle	2.50
1015	Ink Riser	2.50
1016	TempLift (6)	.50
1017	Edge Strips (12)	1.50
LETTERING		
135	Alphabet	1.75
900	Lettering (Set of 3*)	4.00
904	1/8"*	1.50
905	5/32"	1.50
906	3/16"*	1.50
908	1/4"*	1.50
910	Lettering Guide 5/16"	1.50
912	Lettering Guide 3/8"	1.50
925	Lettering Aid	1.75
930	Slant Letter (Set of 3*)	4.00
934	1/8"*	1.50
936	3/16"*	1.50
938	1/4"*	1.50
940	Hi-Lo (Set of 3*)	5.50
944	1/8"*	2.00
946	3/16"*	2.00
948	1/4"*	2.00
950	Neo-Gothic (Set of 3*)	7.00
954	1/2"*	2.50
955	5/8"*	2.50
956	3/4"*	2.50
960V	Gothic Lettering Set (Vertical)	2.75
ELLIPSES		
70	Series (Set of 10—15°-60°*)	18.50
70	10°	2.00
70	15°*	2.00
70	20°*	2.00
70	25°*	2.00
70	30°*	2.00
70	35°*	2.00
70	40°*	2.00
70	45°*	2.00
70	50°*	2.00
70	55°*	2.00
70	60°*	2.00
70	65°	2.00
70	70°	2.00
70	75°	2.00
70	80°	2.00
73	Small Ellipses	3.00
77	Ellipse Master	2.75
78	Ellipse Master	2.75
123	Isometric	3.25
124	Large Isometric	5.00
400	Large (Set of 4*)	15.00
400	20°*	4.00
400	30°*	4.00
400	45°*	4.00
400	60°*	4.00
401	Ellipse (Set of 4*)	8.00
401	20°*	2.25
401	30°*	2.25
401	45°*	2.25
401	60°*	2.25

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45	Public Utilities	2.75
62	Light and Power	5.25
128	Electrosymbol	2.50
175	Electromaster	4.25
300	Electrical/Electronic (Set of 3*)	12.50
301	Electrical/Electronic Symbols*	5.50
302	Contacts, Switches, Relays*	4.50
303	Terminals and Connectors*	3.50
311	Electronic	3.25
312	Electric Controls	2.75
313	Wiring	2.75
314	USAS Y32.2	4.25
315	USAS Y32.2	4.25
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319	Transistor Outline	3.50
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320A	P.C. Component, 4:1 Scale	6.50
321	P.C. Component, 2:1 Scale	6.50
321A	P.C. Component, 2:1 Scale	5.00
1102	(Was 6102A) Electrical and Electronic	5.25
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543	Std. Logic Symbols	3.25
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544A	Std. Logic Symbols	3.25
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555	Fault Tree Symbols	2.25

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52A	Dimensioning and Tolerancing	2.75
53	Arrow	2.75
59	Plotting Symbols	2.00
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64	Fluid Connections	3.25
65	Fluid Connections	3.00
66	Fluid Connections	3.00
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126	Isometric Springs	3.25
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2070	20°*	2.00
2070	25°*	2.00
2070	30°*	2.00
2070	35°*	2.00
2070	40°*	2.00
2070	45°*	2.00
2070	50°*	2.00
2070	55°*	2.00
2070	60°*	2.00
2070	65°	2.00
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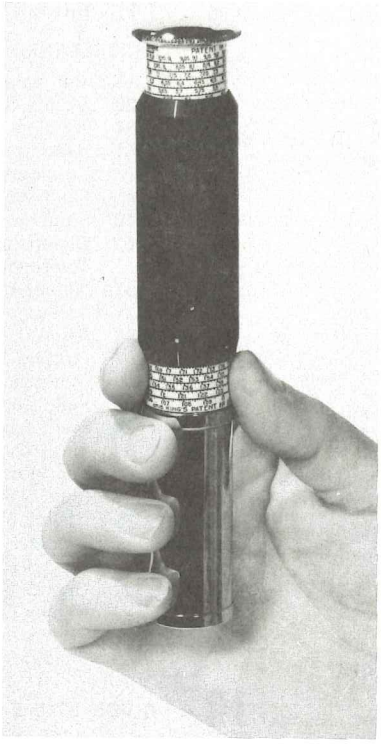

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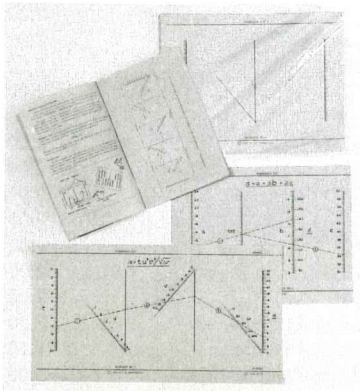

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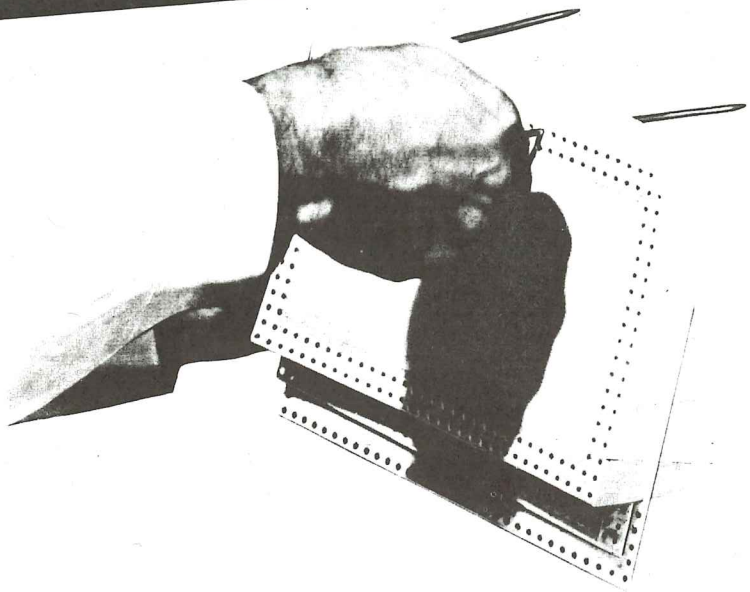

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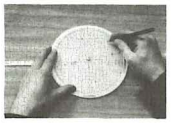
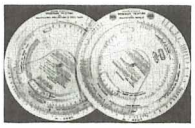
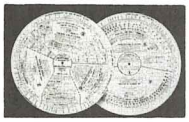


Tensor Calculator F.24

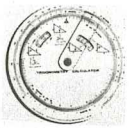
Typical Calculators



HElical Spring Calculator M.4



Trigonometry Calculator F.27



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Steam Flow Calculator M.9 Determines the pressure loss of steam flowing in pipe lines under any conditions from high vacuum up to the critical pressure of 3,200 p.s.i. and at all velocities up to and including sonic flow. Includes a section which provides equivalent lengths for a wide variety of valves, bends and fittings. 7½" Dia., 5)16" Thick, Double Sided. **Price: $20.95**

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Ducting Calculator M.12 This calculator determines duct sizes, velocities and pressure losses for large or small ducting systems passing either warm or cold air. Gives answers for either round, square or rectangular ducts. Computes velocity, pressure loss in ducts and pressure loss in fittings, (bends, branches, etc.). 7½" Dia., ¼" Thick, Double Sided. **Price: $23.95**

HUNTER CALCULATORS

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Shaft Size and Horsepower Calculator F.13 Very popular with mechanical designers, this calculator works out shaft diameters or stresses in shafts of given diameter. Equally suitable for shafts in pure torsion, or shafts subjected to combined bending and twisting, and also carries out horsepower, torque, and speed calculations. 5" Dia., 3)16" Thick. **Price: $8.95**

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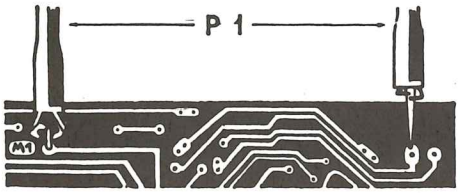
HUNTER UNIVERSAL TEST CLAMPS

FOR ENGINEERS, TECHNICIANS, PHYSICISTS, PRODUCTION WORK IN LABORATORIES AND PLANTS

FOR PRINTED CIRCUITS AND CONVENTIONAL WIRING

TYPE H-2 Standard – 2 hook gripper

TYPE H-3 Special – 3 hook gripper
Will not loosen when twisted or under vibration.



TYPE P-1 Special Design for PRINTED CIRCUITS. Comes complete with DETACHABLE PIN PROBE. Probe is notched for gripper. 2 hook flat gripper.

SPECIFICATIONS:

- **OVERALL LENGTH:** 5¼"
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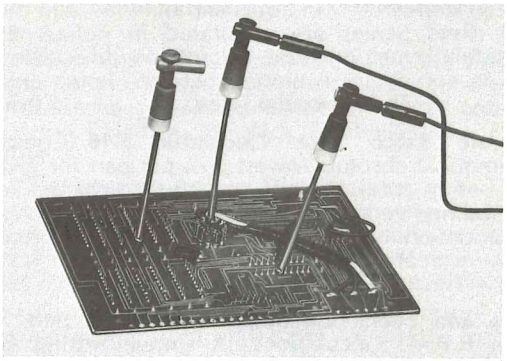
- **RECOIL SPRING:** Spring steel
- **HEAD:** High impact polypropylene
- **SPRING RECEPTACLE:** High impact polypropylene with internal brass coupling
- **INSULATING MAT'L:** PVC hose
- **COLORS:** Red, Black and Green

Completely flexible under light pressure. The head contains a standard banana jack.



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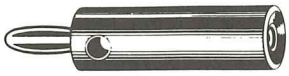

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Red & Black

ADAPTER Tip plug to Banana plug

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3 ft. lead

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Interconnects unlimited number of multiple circuits

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3 ft. lead

"Cross-Patch" Banana Plug

Net Ea. 1.60
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Interconnects unlimited number of multiple circuits

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Tapered recessed plug so that no metal parts are exposed when plugged into mating jacks.

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High Current Patch Cord

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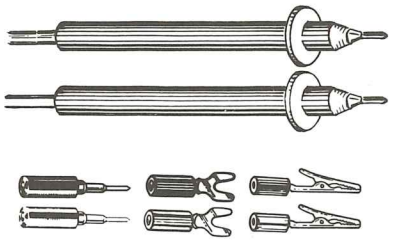
HIGH TENSION TEST LEAD

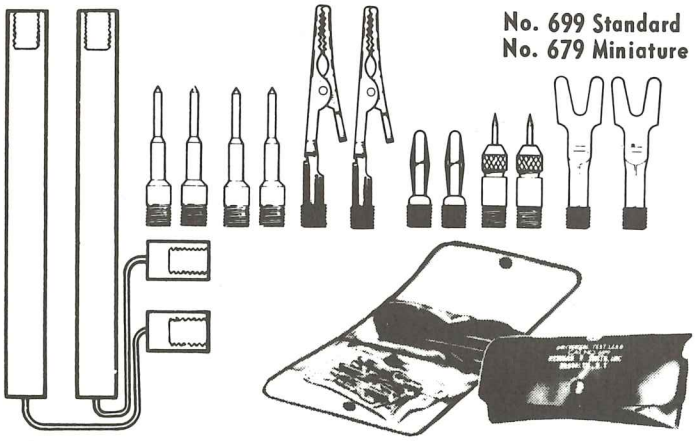
Red and Black



UL620 UL621 UL622

		Net per pr.	Per doz. pr.
UL620	Ins. Phone Tips	2.40	27.60
UL621	Ins. Spade Lugs	2.40	27.60
UL622	Ins. Alligator Clips	2.60	30.00

LABORATORY KITS

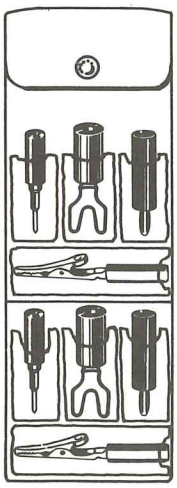


No. 699 Standard
No. 679 Miniature

Fifty Leads in one. One lead can make any required test lead combination. All parts adapt into prod handle or tip handle. Complete as shown with vinyl case.

	Net Ea.	½ Doz.
#699	$3.75	$21.00
#679	3.75	21.00

No. 640



Consists of one red and one black of the following in vinyl case:

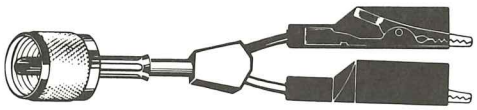
- Phone tip
- Spade lug
- Tip plug adapter
- Alligator clip jack

All parts interchangeable. Converts any standard test lead.

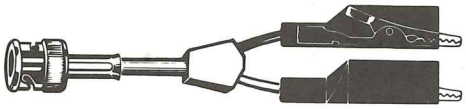
Net Ea. $3.50 $18.00 ½ Doz.

RF TEST CABLES

Wire Specifications: 3 ft. cable
RG 58/U Coaxial Cable
Polyethylene Insulation
Vinyl Jacket
50 Ohm Impedance



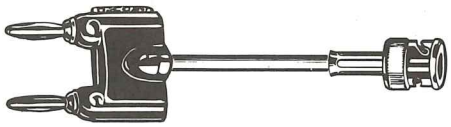
ULC 1586
UHF Male to Alligator Clips, 1 red, 1 black
Net Ea. 6.00
Per Doz. 66.00



ULC 1587
BNC Male to Alligator Clips, 1 red, 1 black
Net Ea. 6.00
Per Doz. 66.00

ULC 1585
UHF Male to Double Banana Plug – black
Net Ea. 6.00
Per Doz. 66.00

ULC 1581
1 red, 1 black
Double Banana Plug to Aligator Clips
Net Ea. 6.00
Per Doz. 66.00

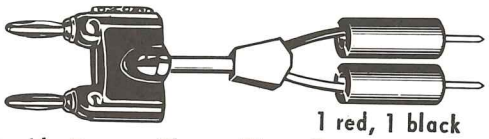


ULC 1584
BNC Male to Double Banana Plug – black
Net Ea. 6.00
Per Doz. 66.00

ULC 1588
Right Angle BNC Male Both Ends
Net Ea. 11.00
Per Doz. 126.00

ULC 1580
Double Banana Plug Both Ends
Net Ea. 5.00
Per Doz. 54.00

ULC 1589
BNC Male Both Ends
Net Ea. 6.00
Per Doz. 66.00



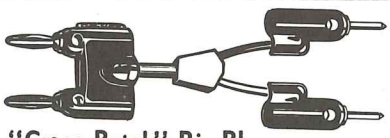
ULC 1583
1 red, 1 black
Double Banana Plug to Phone Tips
Net Ea. 5.00
Per Doz. 54.00

ULC 1869
BNC Female Both Ends
Net Ea. 6.50
Per Doz. 72.00

ULC 1878
BNC Female to BNC Male
Net Ea. 6.25
Per Doz. 69.00

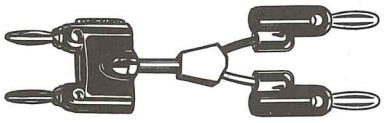
ULC 1871
UHF Male Both Ends
Net Ea. 6.00
Per Doz. 66.00

ULC 1879
BNC Male to UHF Male
Net Ea. 6.00
Per Doz. 66.00

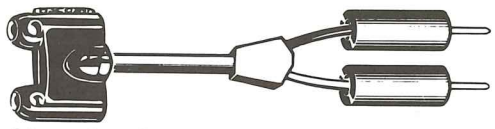


ULC 1594
Plug to "Cross-Patch" Pin Plugs
Net Ea. 6.00
Per Doz. 66.00

ULC 1880
BNC Female to UHF Male
Net Ea. 6.00
Per Doz. 66.00

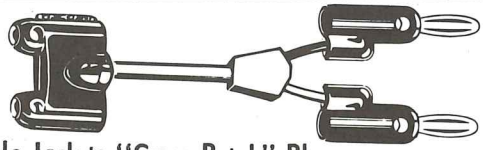


ULC 1525
Plug to "Cross-Patch" Plugs
Net Ea. 6.00
Per Doz. 66.00

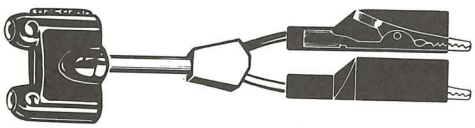


ULC 1894
Double Jack to Phone Tip
Net Ea. 5.50
Per Doz. 60.00

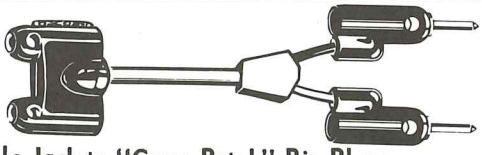
ULC 1883
Double Jack to Double Plug
Net Ea. 5.00
Per Doz. 54.00



ULC 1897
Double Jack to "Cross-Patch" Plugs
Net Ea. 6.00
Per Doz. 66.00

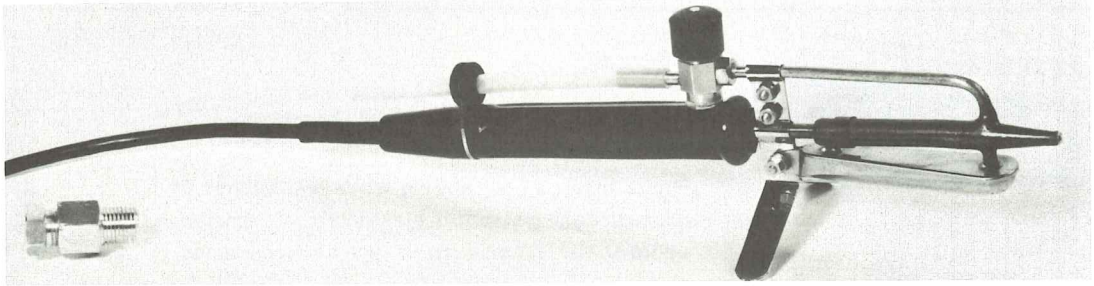


ULC 1891
Double Jack to Alligator Clips
Net Ea. 6.00
Per Doz. 66.00



ULC 1899
Double Jack to "Cross-Patch" Pin Plugs
Net Ea. 6.00
Per Doz. 66.00

HUNTER A.N.T.E.X. DE-SOLDERING TOOLS

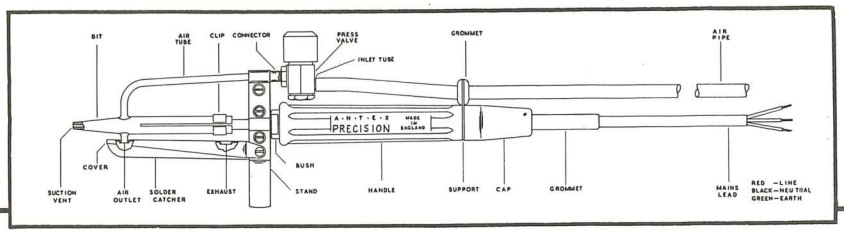


MODEL GSS

TIP SIZE: Dia. Tip 3/32" – 2.4 mm
Dia. Vent. .05" – 1.2 mm
for 22 S.W.G. wire
(0.75 mm dia.) maximum size

Watts: 18

Voltage: 110/120



De-soldering components of electronic assemblies is becoming more important as these assemblies or modules are still further reduced in size, calling more and more for replacement of such sub-assemblies instead of single components. The cost of these assemblies, modules, or integrated circuits is obviously far greater than a single valveholder or I. F. transformer.

Unlike most de-soldering tools available, the ANTEX de-soldering irons work on the principle of creating suction by compressed air, from an airline or footpump. The advantages of this method are particularly apparent when the tool is used in the factory for unsoldering faulty batches of sub-assemblies. The operator is able to use the compressed air supply available in most factories and the self-cleaning effect of the compressed air enables the tool to be used for a large number of operations with only an occasional interruption to empty the stainless steel solder catcher.

Of the two models available, the ESS is fitted with a 4mm diameter tip suitable for normal work on radio and television assemblies. Model GSS is made specially for miniature and micro-miniature de-soldering and is fitted with a 2.4mm diameter tip.

All de-soldering tools are supplied with 6 feet of nylon air lines and leads and two adapters of 1/8" B.S.P. male thread (for airline) and 3/8" T.P.I. male thread for a footpump.

PRICE LIST

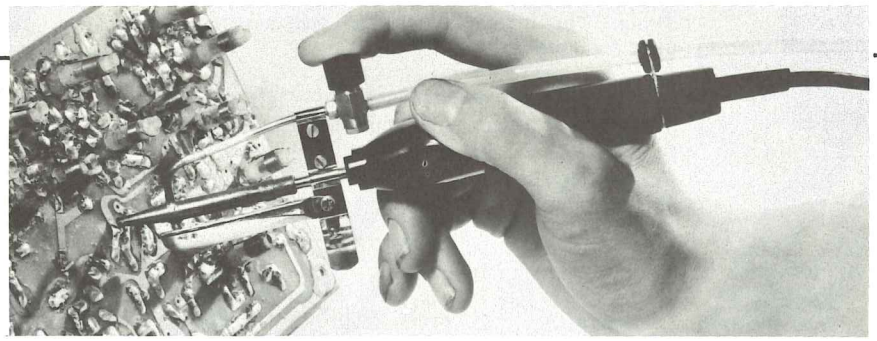
MODEL ESS and GSS

1 – 5 Units	22.95 each
6 – 12 Units	21.95 each
13 and up	20.95 each

SPARE PARTS MODEL ESS and GSS

Bit assembly complete with air tube (specify model number)	$ 5.50 each
Press Valve complete with connector and nut	5.40 each
Solder catcher and cover	2.00 each
Stand Assembly (Specify Model Number)	1.20 each
6 Feet Nylon Air Tube	2.00/6 ft.
Set of Adapters	2.75/Set

TERMS: Net 30 days
F.O.B. Somerville, N. J. 08876

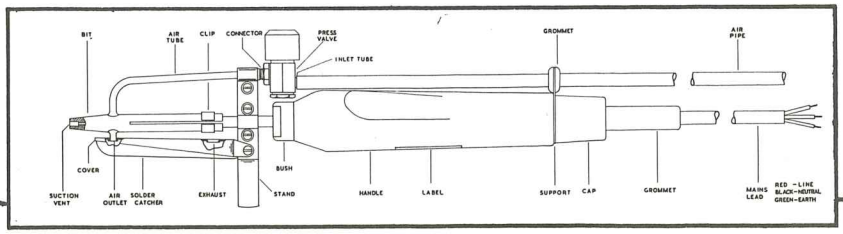


MODEL ESS

TIP SIZE: Dia. Tip 5/32" – 4 mm
Recessed vent dia. .08" – 2 mm
1/8" – 3 mm deep for .062" – 1.5 mm
tag or 16 S.W.G. wire (1.5 mm dia.)

Watts: 25

Voltage: 110/120



Hunter · Pneumatic Pliers

Reliable and Efficient Tools for the Electronic and Plastic Industries. Lightweight and Effortless in operation, with interchangeable jaw inserts.

PZ ELECTRONICA

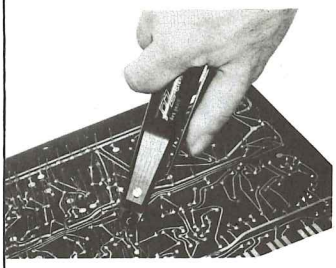
Weight	5.3 oz.
Length	5.9''
Working Pressure	85 p.s.i.
Compressed air connection	1/4''
Compressed air hose	5 ft.
Compressed air consumption per cut	.0015 cubic ft.
PZ Electronica Power Pack with 1/4'' coupling and 5 feet of hose	$98.95
Insert #1	25.00
Insert #12	30.50
Insert #21	30.50

APPLICATIONS

Pliers Insert #1 for cutting wires and strands of copper, light metal and plastics with diameters up to 0.1''. This insert is specially hardened.

Pliers Insert #12 is a special insert for the simultaneous cutting and crimping of wire ends on electronic components. Components are in printed wiring boards and therefore locked in place.

Pliers Insert #21 is a special insert for simultaneously cutting, crimping and bending of wire ends in electronic components.



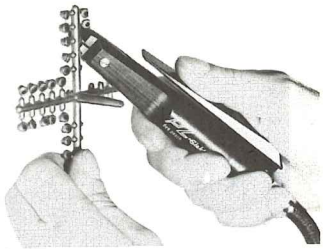
PZ ELECTRONICA AUTOMATIC

Weight	7 oz.
Length	7.5''
Working Pressure	85 p.s.i.
Compressed air connection	1/4''
Compressed air hose	5 ft.
Compressed air consumption per cut	.0015 cubic ft.
PZ Electronica Automatic Power Pack with 1/4'' coupling and 5 feet of hose	$199.50
Insert #1s	30.50

APPLICATIONS

The PZ Electronica Automatic pliers are designed to cycle automatically with a controllable cycling rate. They can be used for the same applications as the PZ Electronica, but at a higher production rate with an absolute minimum of operator fatigue.

These are high production units with the cutting jaw cycling speed continuously variable between 50 and 150 cuts per minute.



PZ 7–3

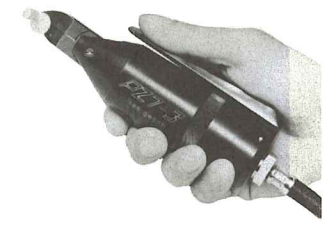
Weight	10.6 oz.
Length	6''
Working Pressure	85 p.s.i.
Compressed air connection	1/4''
Compressed air hose	5 ft.
Compressed air consumption per cut	.0026 cubic ft.
Cutting head rotatible through 90°	
PZ 7–3 Power Pack with 1/4'' coupling, 5 feet of hose and protection cap	$136.50
Insert #3	25.00
Insert #4	30.00
Insert #5	35.00

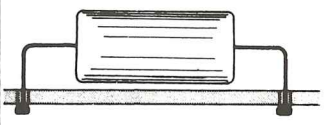
APPLICATIONS

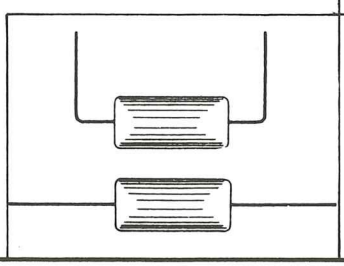
Pliers Insert #3 for Plastics, Copper & Aluminum
Will cut wires and strands of copper, light metal, and plastics of up to 0.118'' dia. to high precision. The insert is polished and may not be used for steel.

Pliers Insert #4 for Steel
This insert is specially hardened. It may also be used for Copper, Aluminum and Plastics.

Pliers Insert #5
For the simultaneous cutting and flat crimping of wire ends.







0.3 mm dia crimped to 0.75 mm
0.4 mm dia crimped to 0.9 mm
0.5 mm dia crimped to 1.1 mm
0.6 mm dia crimped to 1.3 mm
0.7 mm dia crimped to 1.5 mm
0.8 mm dia crimped to 1.6 mm
1.0 mm dia crimped to 1.8 mm

PZ 7 with Safety Catch for 1-hand and 2-hand operation

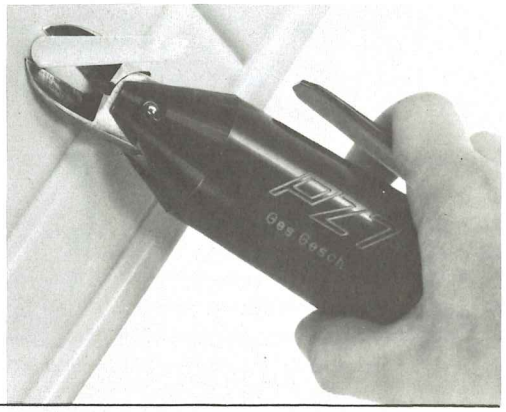
Weight	11.6 oz.
Length	7.3''
Working Pressure	85 p.s.i.
Compressed air connection	1/4''
Compressed air hose	5 ft.
Compressed air consumption per cut	.01 cubic ft.
Cutting head rotatible through 90°	
PZ 7 Power Pack with 1/4'' coupling, 5 feet of hose, protection cap, and safety catch	$152.50
Insert #3	25.00
Insert #4	30.00
Insert #7	38.00

APPLICATIONS

Pliers Insert #3 for Plastics, Copper and Aluminum
Will cut wire and strands of copper, light metal and plastics to great precision. For example: Plastic sprues up to .365'', 7-strand copper cables of 7 x .07'' dia. and copper wire of .197'' dia. The insert is polished and may not be used for steel.

Pliers Insert #4 for Steel
This pliers insert is specially hardened. The insert may also be used for Copper, Aluminum and Plastics.

Pliers Insert #7
A special insert for ''seals'' with a separate set of sealing stamps of 8, 10, 12 and 13 mm dia. Seals up to .315'' dia. are raised embossed. Seals up to .51'' dia. are recessed. Sealing wire is severed with the same pliers insert.



PZ 8 with Safety Catch for 1-hand and 2-hand operation

Weight	12.5 oz.
Length	7.3''
Working Pressure	85 p.s.i.
Compressed air connection	1/4''
Compressed air hose	5 ft.
Compressed air consumption per cut	.015 cubic ft.
Cutting head rotatible through 90°	
PZ 8 Power Pack with 1/4'' coupling, 5 feet of hose, protection cap, and safety catch	$199.50
Insert #3a	25.00
Insert #4a	30.00
Insert #7a	38.00

APPLICATIONS

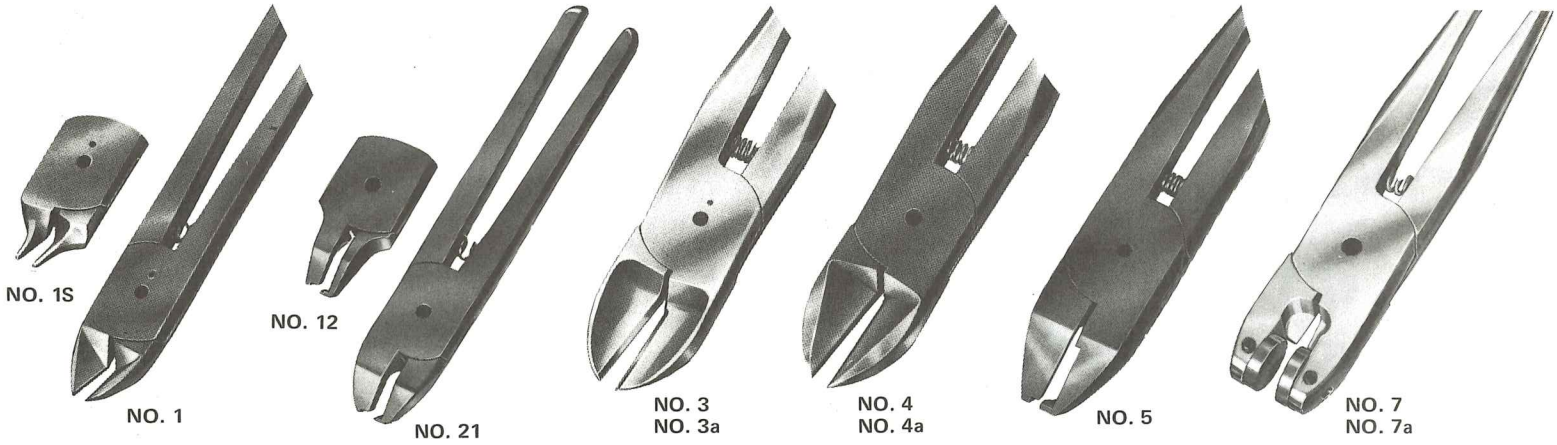
Pliers Insert #3a for Plastics, Copper and Aluminum

Pliers Insert #4a for Steel

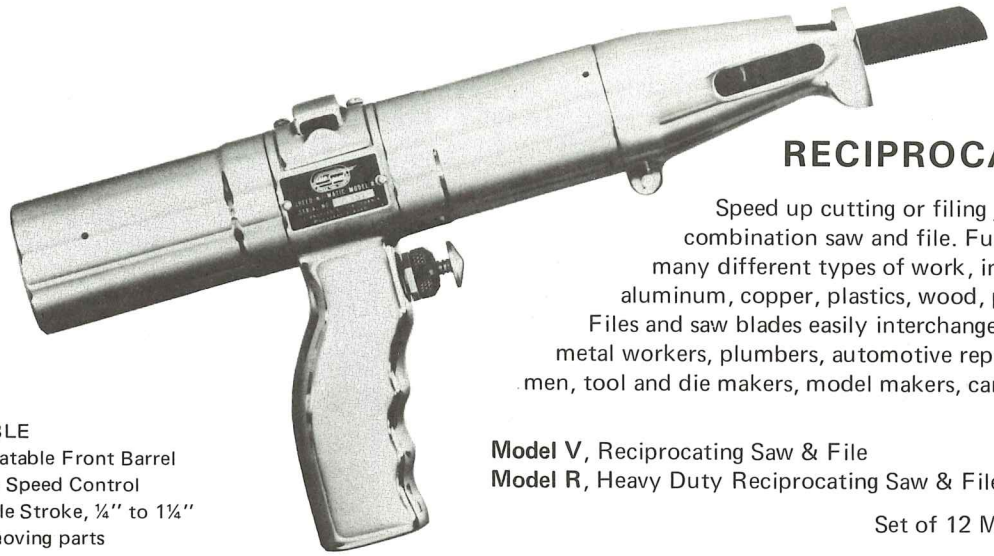
Pliers Insert #7a for Seal Embossing

These inserts are intended for use in the same general applications as Inserts #3, #4, and #7 above, but with proportionately greater capabilities.

These are the heaviest units presently offered with the maximum cutting capabilities. They are intended for use on heavy copper, cables, rivets, bus bars, etc.



PNEUMATIC TOOLS



PNEUMATIC RECIPROCATING SAW and FILE

Speed up cutting or filing jobs with this pneumatic powered combination saw and file. Fully portable and readily adaptable to many different types of work, including sawing or filing on steel, aluminum, copper, plastics, wood, plywood, hard fibre or wall board. Files and saw blades easily interchangeable. Ideal for machinists, sheet metal workers, plumbers, automotive repair men, body men, electricians, line men, tool and die makers, model makers, carpenters, and a host of others.

- PORTABLE
- 360° Rotatable Front Barrel
- Fingertip Speed Control
- Adjustable Stroke, ¼" to 1¼"
- Only 2 moving parts

Model V, Reciprocating Saw & File	**$ 84.50**
Model R, Heavy Duty Reciprocating Saw & File	**$109.50**
Set of 12 Machine Files	**$25.00/set**

V-529, 4"x½"x14 tooth, Metal Cutting Saw (for metals ½" thick or over)	**$3.95/doz**
V-526, 4"x½"x18 tooth, Metal Cutting Saw (for soft metals 1/8" to ¼")	**$3.95/doz**
V-527, 4"x½"x24 tooth, Metal Cutting Saw (All purpose blade)	**$3.95/doz**
V-528, 4"x½"x32 tooth, Metal Cutting Saw((Sheet & Auto Body Metal)	**$3.95/doz**
V-540, 4"x½"x 6 tooth, Wood Cutting Saw	**$4.25/doz**

PNEUMATIC BELT SANDERS

The ideal tool for sanding, grinding and finishing of all materials—wood, metal, plastics. Compact, lightweight, designed for long use without operator fatigue. Typical applications include beveling, internal sanding for hard to reach positions, flat sanding, convex and concave sanding, and inside corners. Belts change easily without tools. Handles rotate to desired working angle.

SPECIFICATIONS

	Model 20	Model 30
Length:	9¾"	16"
Weight:	2¾ lb.	4¼ lb.
Air Consumption:	11 CFM	12 CFM
Air Pressure:	70-90 psi	70-90 psi
Belt Size:	¾"x20½"	1-1/8"x21"

PRICES

MODEL 20 Kit (Includes Model 20 sander, 20 assorted belts, ½ round sanding shoe, finger-guard wrench, and carrying case.)	**$139.50**
MODEL 30 (heavy-duty sander only)	**$205.00**

PNEUMATIC NEEDLE SCALING GUNS

For fast removal of rust, scale, welding slag, barnacles, cement, casting residue, paint, etc., from any irregular surface. These units employ a unique pneumatic energy source that eliminates return springs, which results in longer tool life, and lower air consumption.

SPECIFICATIONS

	Model JC16	Model JEX28
Weight:	3 lb.	7.7 lb.
Hose Size:	3/8"	3/8"
Length:	8.28"	13.75"
Air Pressure:	70-90 psi	70-90 psi
Air Consumption:	3.53 CFM	8.2 CFM
Blows/minute:	4000	4200
Number of Needles:	29	28
Dia. of Needles:	1/16"	1/16"–3/32"
Stroke:	.86"	1.18"

PRICES

MODEL JC16	**$108.00**
MODEL JEX28	**$209.00**

ELECTRIC HAND GRINDER WITH 3/32" AND 1/8" COLLETS

Compact, powerful, easy to handle and operate. 28,000 R.P.M., for super-efficient grinding, cutting, carving, drilling, sanding, sawing, engraving, polishing, cleaning, burnishing and gunsmithing.

Weighs only 14 oz.
Available in 110 and 220 volt

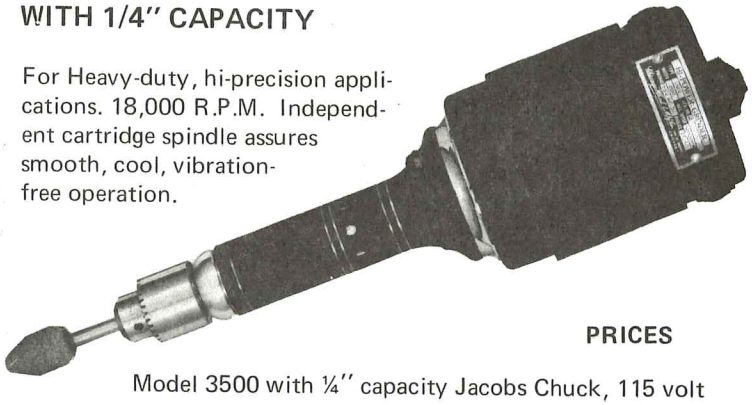
MODEL 6000 Grinder only **$31.50**

$43.50

MODEL 6010 Grinder and 45 piece accessory kit, including steel cutters, cleaning brushes, abrasive mounted wheels, drills, buffing and polishing wheels, drum sander, cut-off discs, dressing stone, and polishing compound in steel case.

HI-POWER HAND GRINDER WITH 1/4" CAPACITY

For Heavy-duty, hi-precision applications. 18,000 R.P.M. Independent cartridge spindle assures smooth, cool, vibration-free operation.



PRICES

Model 3500 with ¼" capacity Jacobs Chuck, 115 volt **$85.00**
Model 3505 with ¼" capacity Jacobs Chuck, 220 volt **$92.00**
Model 3550 with ¼" precision collet, 1/4" – 1/8" reducing collet and wrench set, 115 volt **$87.50**
Model 3555 with ¼" precision collet, 1/4" – 1/8" reducing collet and wrench set, 220 volt **$95.00**

COMPACT AIR GRINDER

- Rugged Construction
- Lightweight, 11 oz.
- 17,000 r.p.m. at 90 p.s.i.
- Compact Design
- Easy to handle
- Low Cost

PRICES

Model 9000 with ¼" capacity chuck **$35.00**
Model 8000 with 1/8" capacity chuck **$35.00**

ACCESSORIES

No. HA-1 Air Line Reducer (1/4" F to 1/8" M) **$ 0.75**
No. HA-2 Air Regulator (1/4" F to 1/4" M) **$ 5.50**
No. HA-3 "O" Ring throttle retainer—keeps throttle in fully open position without hand pressure for continuous operation **$ 0.25**
No. 3722 12 Assorted general purpose mounted wheels on 1/4" x 1½" shanks **$14.00**
No. 6525 20 Assorted general purpose mounted wheels on 1/8" x 1½" shanks **$14.50**
Air Hose No. HA-10—10 ft., 3/16" with two 1/8" male fittings **$ 5.00**

SUPER AIR GRINDER

- Powerful
- Produces ¼ h.p. at 100 p.s.i.
- Smooth running
- Weight, 2 lb.

PRICES

Model 9500J with 0-¼" heavy duty universal chuck for continuous Production operation **$56.50**
Model 8500 with ¼" Rubberflex collet chuck **$65.00**

ACCESSORIES

No. C-3 Exhaust muffler **$ 0.45**
No. CS-10—10 ft Air Hose with ¼" M fittings **$ 7.50**
No. CS-15 Air Control system, consisting of oiler, filter, regulator & gauge **$32.50**
No. 3722 Mounted wheel set (12 assorted wheels on ¼" mandrels) **$14.00**
No. 6525 Mounted wheel set (20 assorted wheels on 1/8" mandrels) **$14.50**
Extra Rubberflex collets (1/8", 3/16", 1/4") **$ 7.50 each**

TORQ-MASTER, ELECTRONIC SPEED/TORQUE CONTROL

Full range, speed/torque control for virtually any motorized hand tool utilizing 115 volt series or universal type motors rated at 4 amperes or less. Includes built-in automatic over-load protection.

PRICE: Model STC-120 **$35.50**

Mandrels

No. 39 Heavy ⅛" dia. shank screw-type mandrel. Used with accessories having ⅛" hole. Nos. 29, 33 and 49 work well with this type.
Price, each.....85c

No. 16 Used with Nos. 26, 33, 27, 29, 3019 and 49. For accessories having ⅛" hole dia. of shank is 3/32".
Price, each.....75c

No. 17 Screw-type mandrel for accessories with 5/64" hole, including Nos. 25 or 3018. With 3/32" dia. shank.
Price, each.....75c

No. 17-A Screw-type mandrel for accessories with 5/64" hole, including Nos. 25 or 3018. 1/8" dia. shank.
Price, each.....85c

No. 21 Shoulder-type screw mandrel for mounting rubber polishing points No. 30 and 31. With 3/32" dia. shank.
Price, each.....85c

No. 21-A Same, with ⅛" dia. shank.
Price, each.....$1.00

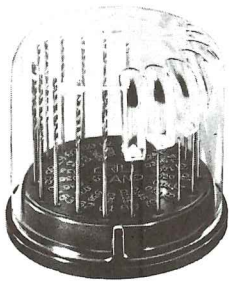
No. 3015 Wheel adapter mandrel for use with Hi-Power Grinder only. Use wheels up to 2½" dia. not exceeding ½" thickness. Shank ¼" dia.
Price, each.....$1.50

No. 3014 Mandrel with screw top for accessories having ¼" dia. hole. Used with Nos. 3016, 3017 and 5025. Shank dia. ⅛".
Price, each.....$1.50

No. 53 ¼" Dia. mandrel. Used with wheels up to 2½" dia., ¼" thick, with ¼" hole.
Price, each.....$1.50

No. 112 New type mandrel for mounting discs from smallest to 1¼" dia. Used with sanding discs Nos. 71, 72, 73. Available only on ⅛" dia. shank.
Price, each.....$1.00

Special Drill Sets



Model makers and mechanics will find this assortment of hair-line drills without equal. Set contains 20 drills

NO. 7001..... **$8.50**

Drills from Set No. 7001 should be used with No. 38A drill chuck (see below)
⅛" Shank Drill Chuck

No. 38A..... **$2.50**

Brushes

No. 11 Bristle-type brush ¾" dia. Permanently mounted on 3/32" shank.
Price, each.....50c

No. 12 Bristle cleaning brush. Permanently mounted on 3/32" dia. shank for convenience.
Price, each.....50c

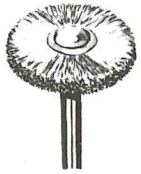
No. 12-S Steel brush permanently mounted on 3/32" dia. mandrel.
Price, each.....$1.00

No. 14 Bristle-type cavity brush ¼" dia. with bristles extending 5/16" from the base. Permanently mounted on 3/32" dia. shank.
Price, each.....50c

No. 3012 2" dia. brush for use with the Hi-Power. Complete with ¼" dia. mandrel and wire used is .0025".
Price, each.....$5.50
Brush only.....$4.50

No. 14-B Bronze wire brush. Brush ¼" dia. Wire extends ⅜" from base of brush. Permanently mounted on 3/32" dia. shank. Wire .005".
Price, each.....$1.00

No. 14-S Same as 14-B ¼" dia. with steel wire .005" extending ⅜" from base. Permanently mounted on 3/32" dia. shank.
Price, each.....50c



No. 15 Wire scratch brush. Wire .005. Brush 1" dia. Mtd. on 3/32" dia. shank.
Price, each.....$1.00

No. 15-A ⅛" dia. shank.
Price, each.....$1.25

No. 15½ Heavy scratch brush. Wire .005. Brush 1" dia. 3/16" thick. Mtd. on 3/32" dia. shank.
Price, each.....$2.00

No. 49 Used with mandrel No. 39 or 16. Brush 1" dia. Wire .0075". Can be used on all Handees and the Hi-Power.
Price, each.....$2.00

Saws

No. 27 ¾″ dia. .023″ thick, ⅛″ hole. Used with mandrel No. 16 and 39.
Price each, saw only. $1.30

No. 25 Cutting disc ⅞″ dia. 1/64″ thick, 5/64″ hole. Used with mandrel No. 17 or 17A.
Price, each.....10c
Box of 12.....75c
Bulk, Per 100.....$4.00

No. 26 ½″ dia. saw .023″ thick with ⅛″ hole. Mandrel head serves as depth gauge. Used with mandrel No. 16.
Price each, saw only. $1.25

No. 19 Undercutting saw, permanently mounted on mandrel 3/32″ dia. ¼″ dia. .033″ thick.
Price, each.....$2.00

No. 20 Permanently mounted saw with a mandrel dia. of 3/32″. On larger commutators this ⅜″ dia. .033″ thickness saw is recommended.
Price, each.....$2.00

No. 3018 ⅞″ dia. only .005″ thick with 5/64″ hole. Used with mandrel No. 17 or 17A.
Price, saw only.....$1.75

No. 3019 1½″ dia. 1/16″ thick, with ⅛″ hole. Used with mandrel No. 16 and 39.
Price, each.....50c

Polishing

No. 30 Rubber polishing tip of "CHICAGO" Soft Rubber Polishing Bond. For mandrel No. 21 or 21A.
Price, tip only, each 50c

No. 41 Rubber polishing tip. 1″ long. Use mandrel No. 21 or 21A for mounting.
Price, tip only, each 50c

No. 31 Uses mandrel No. 21 or 21A. Handee Polishing Compound recommended for use with this wheel.
Price, tip only, each 50c

No. 56 Felt wheel 1″ diameter x ¼″. Mounts on mandrel No. 16 or 39.
Price, felt only....50c

Rag Cloth Polishing Buffs. Use with Mandrels No. 39 or No. 17 with HANDEE Polishing Compound. No. 57 ⅞″ dia. No. 58 1″ dia. No. 59 1¼″ dia.
Price, each.....50c

No. 29 Soft Rubber Polishing Wheel used with the Handees. Dia. ⅞″, thickness ⅛″. hole ⅛″. Used on mandrels No. 16 or 39.
Price, Wheel only..50c

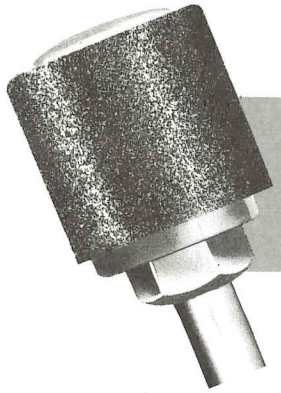
No. 33 Felt wheel used with Handee Polishing Compound. Dia. 1″, thickness ⅛″, hole ⅛″. Used with mandrel No. 16 or 39. Wheel only, price, each..50c

No. 13 Felt polishing wheel permanently mounted on 3/32″ dia. mandrel. Only ⅜″ dia. Polishes more efficiently with Handee Polishing Compound.
Price, each.....50c

No. 3016 Recommended for use with Hi-Power and Handees. 1½″ dia. .023″ thick with ¼″ hole. Used with mandrel No. 3014.
Price, saw only.....$1.50

No. 3017 Largest saw recommended for Hi-Power or Handees. 2″ dia. .032″ thick, ¼″ hole. Used with mandrel No. 3014.
Price, saw only.....$2.50

No. 5025 Dia. 2″ .025″ thick, ¼″ hole. Used with mandrel No. 3014.
Price, saw only.....$2.50



Drum Sanders and Bands

Catalog No.	Diameter	Width	Diameter Shank	Drum Sanders Price Each Net	Bands Price Per Dozen
36	¼″	½″	3/32″	$1.00	$1.50
36-A	¼″	½″	⅛″	1.00	1.50
34	⅜″	½″	3/32″	1.00	1.50
34-A	⅜″	½″	⅛″	1.00	1.50
44-A	½″	½″	3/32″	1.00	1.50
44	½″	½″	⅛″	1.00	1.50
1212	½″	½″	¼″	1.75	1.50
23	¾″	½″	3/32″	1.00	1.75
23-A	¾″	½″	⅛″	1.00	1.75
3412	¾″	½″	¼″	1.75	1.75
11-DS	1″	1″	¼″	1.75	1.75

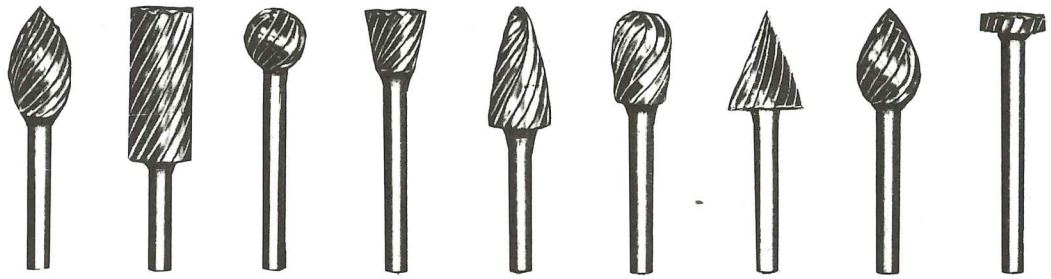
Sanding Discs

Grade	No.	Size	Price Per Dozen	Grade	No.	Size	Price 100 per Box
Coarse	71	1¼″ dia.	$1.00	Coarse	46	⅞″ dia.	$2.00
Medium	72	1¼″ dia.	1.00	Medium	47	⅞″ dia.	$2.00
Fine	73	1¼″ dia.	1.00	Fine	48	⅞″ dia.	$2.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

HIGH SPEED STEEL ROTARY CUTTERS

ILLUSTRATION OF SHAPES



Flame | Sq. Cyl. | Ball | Inverted Cone | Tree | Pear | Cone | Bud | Wheel

HSS ROTARY CUTTERS ON 1/8 INCH SHANKS

Code	Size	Shape	List Price	Code	Size	Shape	List Price
7051	1/4 x 1/2	Bud	$2.00	7067	5/8 x 1/8	Knife Edge	$3.00
7052	1/4 x 1/2	Cone	2.00	7069	3/8	Ball	2.00
7053	1/4 x 1/2	Tree	2.00	7070	1/4 x 1/2	Cyl.	2.00
7054	1/4 x 1/2	Flame	2.00	7071	3/16 x 5/8	Cyl.	2.00
7055	3/8 x 7/32	Barrel	2.00	7072	1/8	Ball	2.00
7056	1/4 x 1/4	Cyl. Rd. End	2.00	7073	3/16 x 5/8	Cyl. Rd. End	2.00
7057	1/4 x 1/4	Cone	2.00	7074	3/16 x 1/4	Cone	2.00
7058	1/4	Ball	2.00	7075	3/16 x 5/16	Pear	2.00
7059	1/4 x 5/16	Barrel	2.00	7076	1/8 x 5/16	Cyl. Rd. End	2.00
7060	1/8 x 9/16	Cone	2.00	7077	3/16 x 3/8	Tree	2.00
7061	1/8 x 1/4	Cone	2.00	7078	3/16 x 3/8	Bud	2.00
7062	3/8 x 3/8	Cone	2.00	7079	3/8 x 1/32	Saw	2.00
7063	1/8 x 5/8	Cyl.	2.00	7080	1/4 x 1/4	Inverted Cone	2.00
7064	1/8 x 5/8	Cyl. Rd. End	2.00	7081	3/16	Ball	2.00
7065	5/8 x 1/8	Barrel	3.00	7082	1/4 x 5/8	Cyl. Rd. End	2.00
7066	5/8 x 1/8	Wheel	3.00	7084	1/4 x 1/16	Knife Edge	2.00

No. 7012 Set of 12 HSS Cutters, on 1/8 inch Shanks — No. 7051 through No. 7052 ..... **$22.00**
No. 7032 Set of 32 HSS Cutters, on 1/8 inch Shanks — No. 7051 through No. 7084 ..... **$60.00**

HSS ROTARY CUTTERS ON 1/4 INCH SHANKS

Code	Size	Shape	List Price	Code	Size	Shape	List Price
RF-151	1/4 x 1/2	Cyl.	$4.00	RF-223	1/2 x 3/4	Tree	$4.00
RF-152	1/4 x 1/2	Cyl. Rd. End	4.00	RF-502	1/2 x 7/8	Pear	4.00
RF-159	1/2	Ball	4.00	RF-503	3/8	Ball	4.00
RF-187	3/16	Ball	4.00	RF-508	1/2 x 1/4	Knife Edge	4.00
RF-220	5/8 x 1/2	Inverted Cone	4.00	RF-519	1/2 x 1	Cyl.	4.00
RF-222	1/2 x 7/8	Cone	4.00	RF-524	1/2 x 5/8	Pear	4.00

No. 3042 Set of 12 HSS 1/4 inch Shank Cutters **$48.00**

Other Sizes and Shapes available — Send a sketch when requesting prices.

STEEL CUTTERS ON 1/8 INCH SHANKS FOR PLASTIC, WOOD AND SOFT METALS

No. 5900 Price, each $1.00 | **No. 5901** Price, each $1.00 | **No. 5902** Price, each $1.25 | **No. 5903** Price, each $1.00 | **No. 5904** Price, each $1.25 | **No. 5905** Price, each $1.25 | **No. 5906** Price, each $1.00 | **No. 5907** Price, each $1.25 | **No. 5908** Price, each $1.00

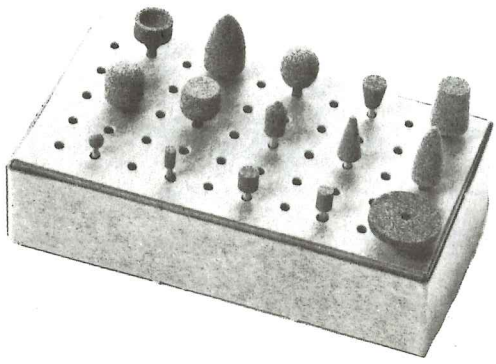
No. 5910 Price, each $1.25 | **No. 5911** Price, each $1.00 | **No. 5912** Price, each $1.25 | **No. 5914** Price, each $1.25 | **No. 5915** Price, each $1.25 | **No. 5916** Price, each $1.25 | **No. 5917** Price, each $1.25 | **No. 5918** Price, each $1.25 | **No. 5921** Price, each $1.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Mounted Wheels

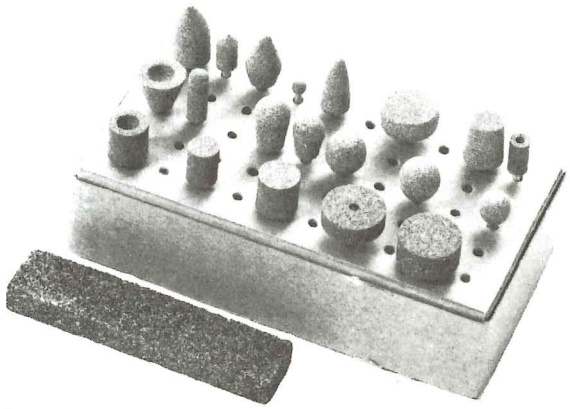
Chicago Wheel pioneered the Mounted Wheel and has been a specialist in the manufacture of these vital tools for industrial applications for over half a century. There is a precision engineered Chicago Mounted Wheel for every possible grinding application. 200 standard sizes and 86 standard shapes are available in a variety of bonds.

Sets are available from stock in our standard grade for general purpose grinding of iron and steel. Sets may be ordered made with silicon carbide grain for working with glass, ceramics or other non-ferrous materials.



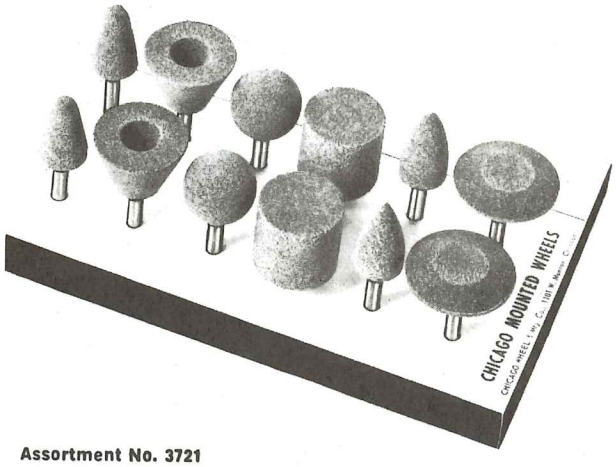
Assortment No. 3

Set contains 15 general purpose Chicago Mounted Wheels on ⅛ inch diameter shanks. May be used with both the HANDEE 6000 and Hi-Power 3500 grinders **$10.25**



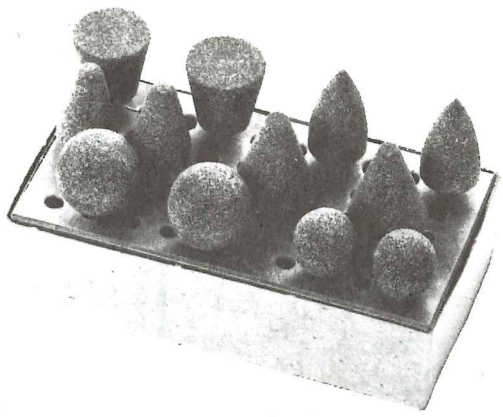
Assortment No. 6525

Set contains 20 general purpose Chicago Mounted Wheels on ⅛ inch diameter shanks and one dressing stone. May be used with both the HANDEE 6000 and Hi-Power 3500 grinders.. **$14.50**



Assortment No. 3721

Set contains 12 general purpose Chicago Mounted Wheels on ¼ inch diameter shanks. May be used with the Hi-Power or other tools with ¼" capacity chucks..... **$14.00**



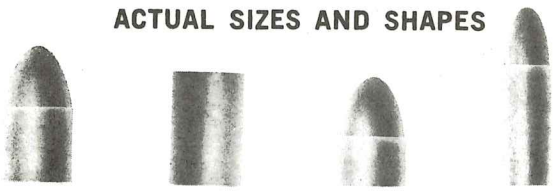
Assortment No. 3722

Set contains 12 general purpose Chicago Mounted Wheels on ¼ inch diameter shanks. May be used with the Hi-Power or other tools with ¼" capacity chucks..... **$14.00**

UNMOUNTED RUBBER POLISHING WHEELS FOR PORTABLE GRINDING

Inexpensive, efficient, smaller size molded and undressed shapes of soft rubber bond are used with auxiliary screw type mandrels for all types of finishing jobs. Hole in the wheel is molded to a taper, giving a tight mechanical fit to the mandrel.

ACTUAL SIZES AND SHAPES



SS-31 ⅜ x ¾" | SS-32 ⅜ x ⅝" | SS-33 ⅜ x 9/16" | SS-37 ¼ x ⅞"

No. 21-A Mandrel

PRICES

Any shapes illustrated, furnished 220 grain size, unmounted.
List price, each..... 50¢

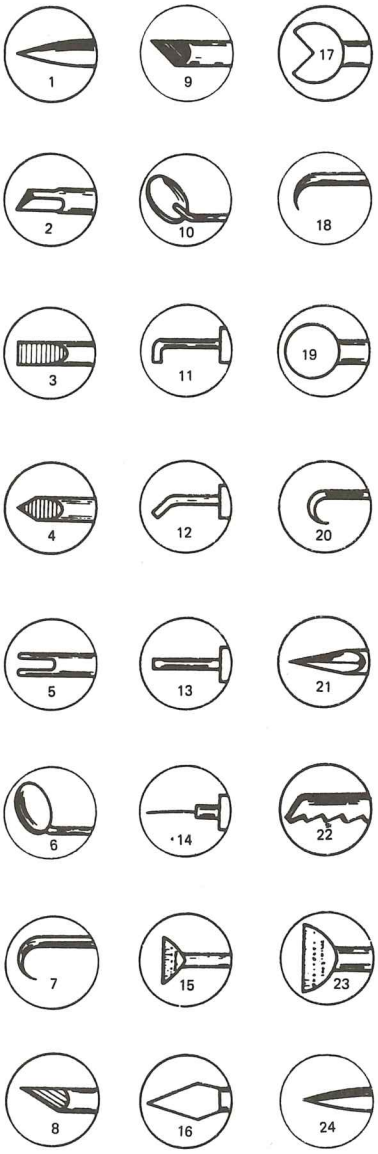
Mandrel (illustrated at left):
No. 21-A. ⅛" shank. Each..... $1.00

Set of 6 wheels each size with mandrel.
No 51 ..... $6.50

Set of 12 wheels each size with mandrel.
No. 52 ..... $10.50

Prices subject to change without notice

minitool gold-plated mini-tools

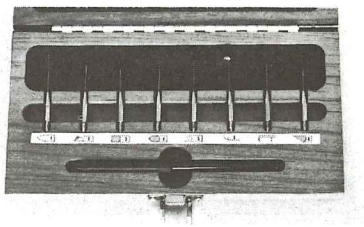


PRICES FOR INDIVIDUAL TOOL-TIPS.

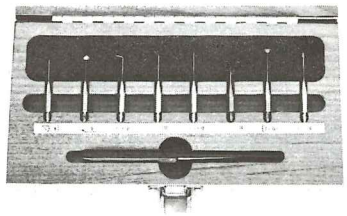
NO.	NAME	PRICE / TIP
tool # 1	needle point long	**$5.50**
tool # 2	graver	**9.85**
tool # 3	chisel	**9.85**
tool # 4	spade	**9.85**
tool # 5	bifurcated	**7.50**
tool # 6	front mirror	**9.85**
tool # 7	180-degree hook	**9.85**
tool # 8	3.00 root knife	**9.85**
tool # 9	2.00 root knife	**9.85**
tool # 10	rear mirror	**9.85**
tool # 11	90-degree probe	**7.00**
tool # 12	45-degree probe	**7.00**
tool # 13	straight probe	**7.00**
tool # 14	single bristle brush	**8.75**
tool # 15	.100" scale	**14.50**
tool # 16	spatula	**9.85**
tool # 17	corner manipulator	**8.75**
tool # 18	90-degree hook	**8.75**
tool # 19	burnisher	**8.75**
tool # 20	small hook	**9.85**
tool # 21	triangular scraper	**9.85**
tool # 22	saw	**9.85**
tool # 23	.200" or 5 mm scale	**16.65**
tool # 24	needle point short	**5.50**
handle		**3.75**
adapter for micro-manipulators		$ 2.50

Uses of mini-tools :

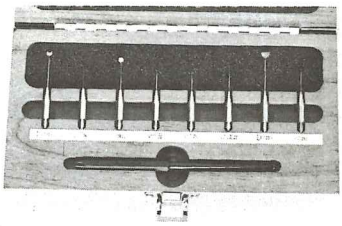
* Microscopy
* Micro-Biology
* Micro-Electronics
* Micro-Modular Assembly
* Micro-Medical Electronics
* Micro-Biochemistry
* Nematology
* Entomology
* Micro-Miniature Instruments



Set No. 1 includes tool-tip No. 1 to No. 8



Set No. 2 includes tool-tip No. 9 to No. 16



Set No. 3 includes tool-tip No. 17 to No. 24

Prices for standard sets.

Set No. 1 ---------- $. **68.00**
Set No. 2 ---------- $ **69.50**
Set No. 3 ---------- $ **73.50**

mini-tools are made to realistic proportions to be used directly for work under microscopes.

mini-tools are precision made. Only the best material available has been used. Tool tip bases are 24 carat gold-plated to resist contamination and corrosion.

The actual working elements are made from oil-hardened tool steel nickel-plated or from stainless steel.

mini-tools are sold in standard sets as shown,or may be selected by the customer as needed. Any selection of 8 tips and 1 handle will be shipped in long-lasting hardwood box.

Individual tool-tips and handles are shipped in plastic shell containers,properly identified by picture and number.

Standard tip size is .020" diameter.

Tips having .005"–.010" –.030" and .040" dia. available on request.

Well-balanced non-rolling handle fits all mini-tools.

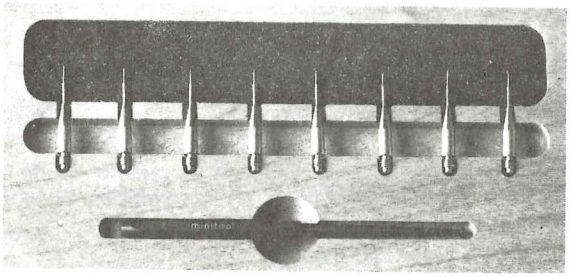
minitool carbide-tips

CARBIDE–TIPPED mini-tools are precision ground and lapped from solid tungsten carbide. Finished tools are inserted into stainless steel tubing and then mounted into 24 carat gold-plated tool-cones.

Please state diameter of tools when ordering, as the following sizes are made:

.005" dia. –.010" dia. –.020" dia.–.030" dia.–.040" dia.

Select your own special set from tools on this page. Individual tools and handles are sent in plastic shell-containers,identified py picture and number. Any assortment of 8 tools and one handle will be shipped in handsome longlasting wooden box.



8 tool-tips and 1 handle in long-lasting hardwood box.

Well-balanced non-rolling handle fits all mini-tools.

PRICES FOR INDIVIDUAL TOOL-TIPS.

	.005 " Dia.	.010 " Dia.	.020".030"or.040"Dia
tool no. 1 needle point	$ 18.75	$ 12.00	$ 9.75
tool no. 2 graver	$ 23.50	$ 18.75	$ 13.50
tool no. 3 chisel	$ 23.50	$ 18.75	$ 13.50
tool no. 4 spade	$ 23.50	$ 18.75	$ 13.50
tool no. 8 3.00 knife	$ 23.50	$ 18.75	$ 13.50
tool no. 9 2.00 knife	$ 23.50	$ 18.75	$ 13.50
tool no. 13 probe	$ 23.50	$ 18.75	$ 13.50
tool no. 21 scraper	$ 23.50	$ 18.75	$ 13.50
Handle	$ 3.75		

HUNTER ASSOCIATES
792 Partridge Drive
Somerville, N. J. 08846
Phone (201) 526-8440

Terms: Net 30
FOB: Somerville, N.J.

Open Account to D & B rated firms

MINIMUM ORDER: 2 Tools

minitool Diamond Scriber S – 077

Diamond Scriber S–077 have 1–32 inch diameter by 1–8 inch long shank which is fastened into hexagonal non–rolling aluminum handle.

Uses include cutting and marking of extremely hard materials such as carbide, alumina, glass, silicon, germanium.

The Diamond Scriber S – 077 is a very useful tool for layout work, graphic art work, electronic substrate and integrated circuit work.

Actual Size

PRICE $ 4.50

Included cone–angle of diamond approx. 60 degree.

HUNTER SAND BLAST GUN

A Handy Tool in Any Shop

Air Pressure:
60 to 150 p.s.i.

Abrasives Handled:
(16-1000 grit sizes)
Silica Sand, Metal Shot, Alumina Oxide abrasives, Nut Shell abrasives, etc.

MODEL 30D

PRICE: $32.00

Shipping Weight: 3 lbs.

This is a sturdy, low cost unit with performance comparable to large commercial sand blast machines except that blast covers a smaller area.

A handy tool in any shop for sand-blasting small parts, for removing rust scale and dirt, for texturing and etching metals, glass, ceramics, plastics, wood, etc. Has solved many complex cleaning problems.

Built to give continuous service. Includes Diamonite nozzle and one hardened steel jet. All parts replaceable — parts list furnished.

MINIATURE SAND BLAST UNIT

MODEL AEC

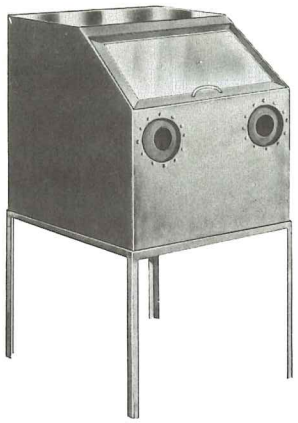
A fine, precision instrument for use as a miniature sand blaster, for cleaning jewels and fine instrument parts, for etching glass and other hard materials, and for erasing. With long-life carboloy tip.

Air Pressure:
15-30 p.s.i. for light erasing
30-75 p.s.i. for cutting action

PRICES:

Model AEC	**$28.50**			
A 1/8", 10' Braided Hose		**$3.75**		
AEX Compound (fast cutting)	6 oz. jar	**$1.55**	5 lbs. container	**$7.00**
AE Compound (slow cutting)	6 oz. jar	**$1.20**	5 lbs. container	**$3.85**

SPARE PARTS, ACCESSORIES AND REPLACEMENT PARTS LIST INCLUDED WITH EVERY UNIT.



Model 35B
BLAST BOOTH

CONVENIENT FRONT LOADING DOOR
of heavy screened glass

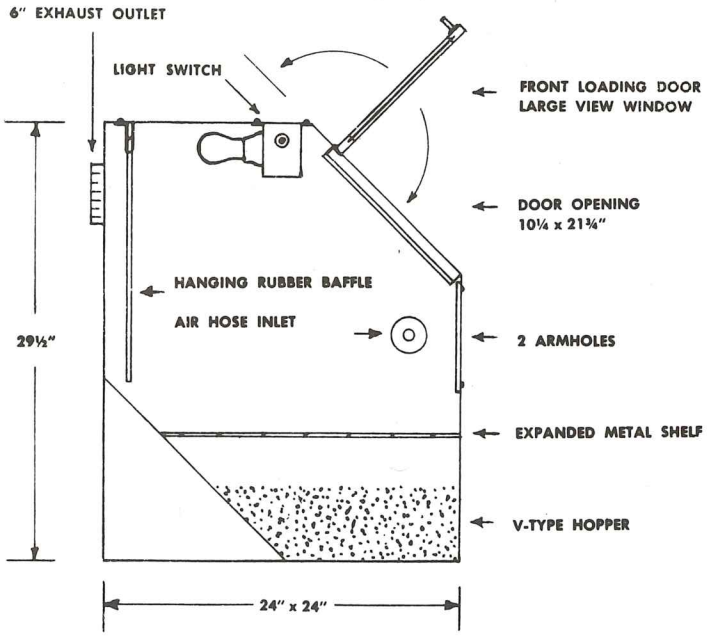
Electric Cord
6 ft.

PRICE: $172.00
(Booth only)

Shipping Weight:
Approximately 60 lbs.

24"x24" BLAST BOOTH

Confines abrasives when blasting, V-shaped hopper and flexible syphon tube provides continuous feed of abrasives. Portable features of gun still maintained for work outside booth.



GOGGLES

No. 103 Painters Goggles

Shipping Weight: 1 lb.

Molded rubber frame provides a gas-tight fit to face. Curved oval lenses are 50 X 60 mm. in diameter and afford wide clear vision.

PRICE: $2.80/ea.

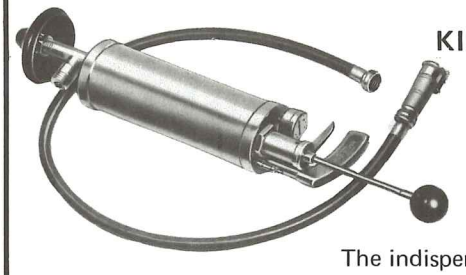
RESPIRATORS

FOR USE WITH BLAST UNITS

No. 81 Cartridge Respirator **$7.50**

Replacement Cartridge Filters **$1.00/ea.**

KINETIC WATER RAM



Catalog No. 600E

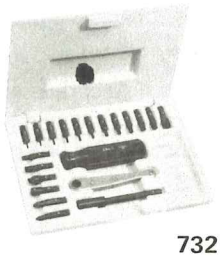
Kinetic Water Ram complete with standard fittings. **Price: $107.50**

Metal Storage and Carrying Case **Price: $ 12.00**

The indispensable industrial plumbing maintenance tool. Quickly opens and cleans clogged pipes up to 4" dia., as far as 200 feet from the obstruction. Simple to use. Utilizes the stored energy of a compressed air impulse against an incompressible water column. Delivers 98% of impact against obstruction, and only 2% against walls of pipe.

HUNTER MINIATURE RATCHET SETS

KIT #6320



KITS # 7321, 7331, 7341

Constructed of the finest materials and packaged into convenient sets, these tools are a must for anyone who works with small to medium size screws, bolts and nuts. For assembly or disassembly in confined areas, these miniature ratchet sets will rapidly pay for themselves in the hours saved.

KIT No. 6320
PRICE: $12.95

Contains: 1 Midget Ratchet, 1 Extension, 1 Screw Driver Handle, 12 Allen Hex Type Adapters

.050"	7/64"	3/16"
1/16"	1/8"	7/32"
5/64"	9/64"	1/4"
3/32"	5/32"	5/16"

(size indicates distance across flat)

2 Slotted Head Adapters
1/4" 3/8" (size indicates width of blades)

2 Phillips Head Adapters
No. 1 No. 2

1¼" Square Drive Adapter

Note: Sockets not supplied

KIT No. 7321
PRICE: $12.55 **STANDARD ASSORTMENT**

Contains: 1 Midget Ratchet, 1 Extension, 1 Screw Driver Handle, 12 Allen Hex Type Adapters

.050"	7/64"	3/16"
1/16"	1/8"	7/32"
5/64"	9/64"	1/4"
3/32"	5/32"	5/16"

(size indicates distance across flat)

3 Slotted Head Adapters
3/16" 1/4" 3/8"
(size indicates width of blades)

2 Phillips Head Adapters
No. 1 No. 2

1¼" Square Drive Adapter

Note: Sockets not supplied

KIT No. 7331
PRICE: $14.95 **STANDARD ASSORTMENT & METRIC**

Contains: All of Kit No. 7321 plus 6 Metric (Allen Hex Type) Adapters

1.5mm	2.5mm	4.0mm
2.0mm	3.0mm	5.0mm

(size indicates distance across flats)

KIT No. 7341
PRICE: $15.25

(Standard Assortment plus Bristol)

Contains: All of Kit No. 7321 plus 6 Bristol (6-flute) Multiple Spline Adapters

.048"	.072"	.111"
.060"	.096"	.145"

(size indicates major diameter)

KIT No. 4320
PRICE: $11.00

Contains: 1 Midget Ratchet, 1 Extension 12 Allen Hex Type Adapters

.050"	7/64"	3/16"
1/16"	1/8"	7/32"
5/64"	9/64"	1/4"
3/32"	5/32"	5/16"

(size indicates distance across flats)

2 Slotted Head Adapters
1/4" 3/8" (size indicates width of blades)

2 Phillips Head Adapters
No. 1 No. 2

1¼" Square Drive Adapters

Note: Sockets not supplied

KIT No. 1316
PRICE: $7.90

(Federal Stock No. 5120-541-5702)

Contains: 1 Midget Ratchet 10 Allen Hex Type Adapters

.050"	3/32"	5/32"	1/4"
1/16"	1/8"	3/16"	5/16"
5/64"		7/32"	

(size indicates distance across flats)

2 Slotted Head Adapters
1/4" 3/8" (size indicates width of blades)

2 Phillips Head Adapters — No. 1 No. 2

1¼" Square Drive Adapter **Note:** Sockets not supplied

KIT No. 1313
PRICE: $6.45

Contains: 1 Midget Ratchet 12 Allen Hex Type Adapters

.050"	3/32"	9/64"	7/32"
1/16"	7/64"	5/32"	1/4"
5/64"	1/8"	3/16"	5/16"

(size indicates distance across flats)

KIT No. 2307
PRICE: $4.05

Contains: 1 Midget Ratchet 6 Metric Hex Type Adapters

1.5mm	2.5mm	4.0mm
2.0mm	3.0mm	5.0mm

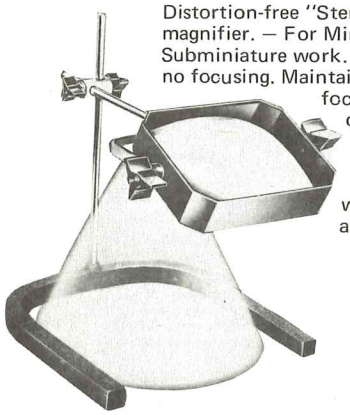
(size indicates distance across flats)

KIT No. 3307
PRICE: $4.35

Contains: 1 Midget Ratchet 6 Bristol Multiple Spline Adapters

.048"	.072"	.111"
.060"	.096"	.145"

(size indicates major diameter)



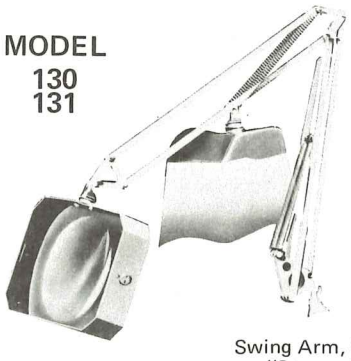
Distortion-free "Stereoptic" magnifier. — For Miniature and Subminiature work. Requires no focusing. Maintains complete focus for full depth of field. Up to 48 sq. inch work-viewing area.

LENS

Model	Power	Size	Area	Price
120	3X	6"x6"	36 sq.in.	$64.95
121	2.5X	6"x8"	48 sq.in.	$79.95

With Fluorescent Light $15.00 additional
With Incandescent Light $8.00 additional

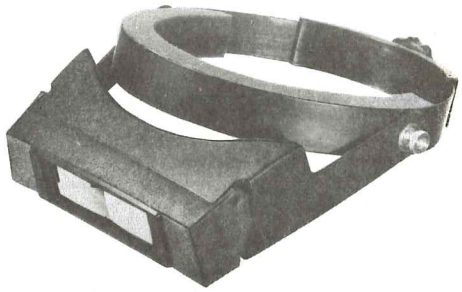
MODEL 130 131



Swing Arm, Clamp-on "Stereoptic" magnifier, with illuminator.

Model	Power	Lens Size	Price
130	3X	6"x6"	$64.95 w/light
131	2.5X	6"x8"	$79.95 w/light

HEADBAND MAGNI-FOCUSER



Clear, comfortable magnified vision, while leaving both hands free. Of shatter-resistant construction. Lens flips up and down for conveneince.

Model	Work. Dist.	Power	Price
103	14"	1¾	$12.50
105	8"	2¼	$12.50
107	6"	2¾	$12.50
110	4"	3½	$15.00

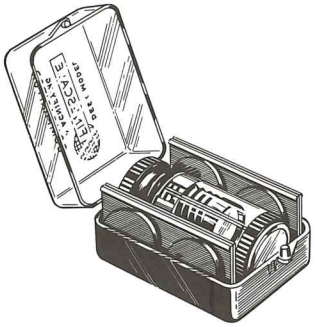
MAGNIFYING COMPARATORS AND RETICLES

A precision 6 power magnifier with more than 70 interchangeable reticles or scales. Accurate, easy to use, versatile and truly portable. Often replaces far more expensive measuring microscopes and projection comparators. In use, the appropriate reticle is inserted and the comparator is placed directly on the work. Note that all the reticles are supplied in black line and white line pairs so that optimum contrast may always be achieved.

With Magnifier, one pair reticles No. 121 and pocket carrying case.

PRICE: $16.50 Complete

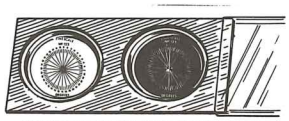
POCKET MODEL COMPARATOR NO. 10



With Magnifier and four pairs of reticles Nos. 121, 122, 123, 124, in compact carrying case.

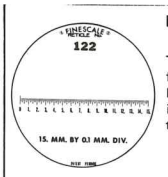
PRICE: $19.50 Complete

DESK MODEL COMPARATOR NO. 20



ADDITIONAL RETICLE PAIRS $2.00
SUPPLIED IN PAIRS, ONE BLACK-LINE AND ONE WHITE-LINE OF SAME PATTERN, IN PLASTIC CASE

No. 121 – 1/2 in. By .005 in. Div.
This is the most popular scale for mechanics, toolmakers, and engineers working with decimal measurements.

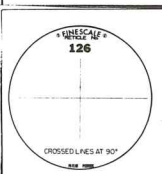


No. 122 – 15. mm By 0.1 mm Div.
This is the most useful scale for scientists, laboratory technicians, and others using the metric system.

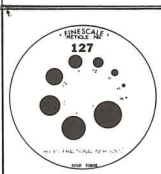
No. 123 – Degrees.
A full circle protractor with 1.° divisions. A generally useful scale.

No. 124 – 1/2 in. By 64ths.
Open scale and fine lines permit very accurate measurements for those preferring fractional dimensions.

No. 125 – Widths, Decimal inch sizes.
Eighteen sizes, .001" to .050". Used in checking the width of drawn or scribed lines; slots, etc. Compare with No. 140.

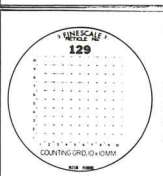


No. 126 – Crossed lines at 90°.
For quickly checking the squareness of small layouts and parts.

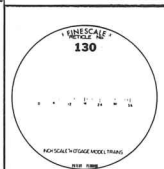


No. 127 – Holes, Fractional inch sizes.
Nine holes ranging from 1/128 in. to 1/8 in. in diameter. For checking holes, voids, flaws, etc.

No. 128 – Holes, Decimal inch sizes.
Eighteen sizes from .001 in. to 050 in. For checking holes in spray nozzles, gas jets, ball-point pens, instruments, watches, etc.



No. 129–Counting Grid, 10 x 10 mm.
Used in many biological sciences, for soil analysis, spray pattern studies, etc.

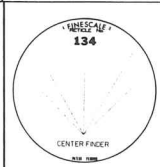


No. 130 – Inch scale for "H-O" Gage Trains.
For the adult train hobbyist making accurate scale models.

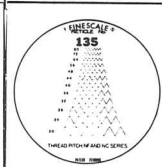
No. 131 – Printers Points.
For printers, lithographers, advertising specialists, etc. in checking height and spacing of small type.

No. 132 – Thread Pitch, NM series.
For checking threads in the new "miniature" series. See Reticle No. 135 for others.

No. 133 – Radii, Fractional inch sizes.
From 1/32 in. to 3/8 in. by 1/32 in. steps. See No. 139 for decimal inch sizes.

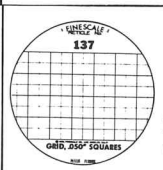


No. 134–Center Finder.
For checking accuracy of centers and keyways of small shafts, layouts, etc.

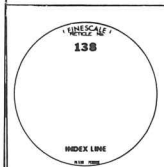


No. 135 – Thread Pitch, NF and NC series.
All threads from smallest to 20 THDS/IN in both series. See Reticle No. 132 for pitch of new NM series.

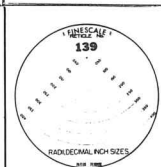
No. 136 – .300 in. By .002 in. Div.
Similar to No. 121, but with finer divisions for still more accurate measurements. By reading on the lines or between them measurements to .001" are read.



No. 137 – Grid. .050" x .050" squares.
First made for checking layouts and inspecting of electronic wiring boards (printed circuits).

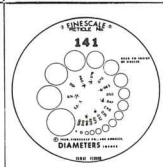


No. 138 – Index Line.
First made for use in comparators which are built into special layout and measuring machines.

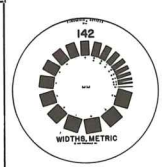


No. 139 – Radii, Decimal inch sizes.
A companion to Reticle No. 133. This one has decimal inch sizes while the other has fractional inch sizes.

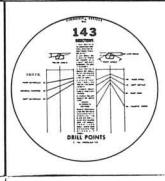
No. 140 – Caliper, Decimal inch sizes.
Somewhat similar to Reticle No. 125. Consider No. 125 as a feeler-gage and this one as a snapgage for miniature parts and dimensions.



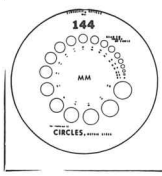
No. 141 – Circles, inch sizes.
Like No. 128 except open circles. Both fractional and decimal inch sizes.



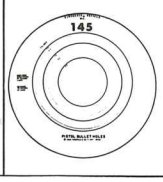
No. 142 – Widths, metric sizes.
Like No. 125 but with bars varying in width from 0.1 mm to 2.0 mm by 0.1 mm increments.



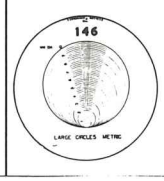
No. 143 – Drill Points.
For checking the sharpening of small drills. Shows correct point angle and lip clearance for drilling various materials.



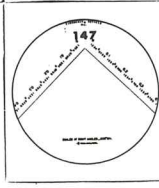
No. 144 – Circles, metric sizes.
Open circles like No. 141 but metric sizes from 0.1 to 2.0 mm dia. by 0.1 mm increments.



No. 145 – Pistol Bullet Holes
Scoring gage for all N.R.A. listed sizes.



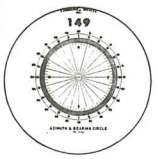
No. 146 – Large Circles, Metric
Sizes from 1.0 to 10.0 mm by 0.1 mm div. See No. 144 for smaller ones.



No. 147 – Scales at Right Angles, .005" Div.
Preferred to No. 121 for some measurements.

No. 148 — Rifle Bullet Holes.

Scoring gage for all N.R.A. listed sizes.



No. 149—Azimuth and Bearing Circle

1.0 degree div. Preferred over No. 123 for map reading.

150
Mag. Tape
I.R.I.G.
7-14 track

151
Mag. Tape
I.R.I.G.
16 track digital

152
Mag. Tape
I.R.I.G.
31 track digital

153
Mag. Tape
In-Line
7-14 track

154
Mag. Tape
IBM
7 track

155
Mag. Tape
IBM
9 track

No. 156 — Widths, Fractional Inch Sizes

Like No. 125 and No. 142 but with 12 fractional inch bars from 1/128" to 3/32" by 1/128" divisions.

No. 157 — Caliper, Fractional Inch Sizes

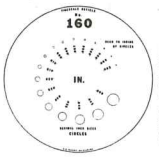
Like No. 140 but with 11 fractional inch sizes from 1/128" to 3/32" in 1/128" steps to 5/64" plus 3/32". This is a "snap gage."

No. 158 — Caliper, Metric Sizes

Another "snap gage" like No. 140 and No. 157 with 13 metric sizes from .1 mm to 2.0 mm. Sizes are .1, .2, .3, .4, .5, .6, .8, 1.0, 1.2, 1.4, 1.6, 1.8, and 2.0 mm.

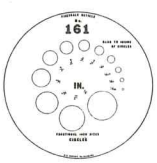
No. 159 — Holes, Metric Sizes

Like No. 127 and No. 128. It has 20 holes from .1 mm to 2.0 mm by .1 mm steps. For checking small metric size holes.



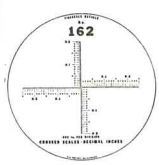
No. 160 — Circles, Decimal Inch Sizes

Like No. 140 but includes only decimal inch size holes. 17 holes from .002 in. to .050 in. by .001 in. steps to .010 in. and by .005 in. to .050 in.



No. 161 — Circles, Fractional Inch Sizes

Like No. 140 but includes only fractional inch size holes. 12 holes from 1/128" to 1/8" by 1/128" to 1/4" and by 1/64" to 1/8".



No. 162 — Crossed Scales, Decimal Inch Sizes

Crossed lines with decimal inch scales. Vertical scale is .4 in. long and Horizontal scale .5 in. long. All scales marked to .005 in. increments.

No. 163 — Crossed Scales, Fractional Inch Sizes

Like No. 162 but marked in 1/64" increments. Vertical scale is 3/16" long and horizontal scale 1/2" long.

No. 164 — Crossed Scales, Metric Sizes

Crossed lines with metric scales. Vertical scale is 10 mm long and horizontal scale is 14 mm long. All scales marked to .1 mm.

No. 165 — Counting Grid, Fractional Inches

Like No. 129 and No. 137 except 1/2 in. by 3/8 in. in size with 48 squares 1/16 in. in size.

No. 166 — Fine Grid, Decimal Inches

Like No. 137 but with 2000 squares .01 in. on a side. Overall size .4 in. by .5 in. Used for small particle counting. Accented each .05 in.

No. 167 — Fine Grid, Fractional Inches

Like No. 165 but divided into 768 squares 1/64 in. on a side. Overall size 3/8 in. by 1/2 in. accented each 1/16 in.

No. 168 — Fine Grid, Metric

Like No. 129 but divided into 2500 squares .2 mm on a side. Overall size 10 mm by 10 mm accented each mm.

No. 169 — Large Circles, Decimal Inch Sizes

Like No. 146 but with decimal inch sizes. Sizes go from .050 in. to .400 in. by .005 in. increments with full circles each .050 in. and arcs for intermediate sizes.

No. 170 — Large Circles, Fractional Inch Sizes

Like No. 169 but with fractional inch circles from 1/16 in. to 3/8 in. by 1/64 in. increments. Full circles every 1/16 in. and arcs for intermediate sizes.

No. 171 — Radii, Metric Sizes

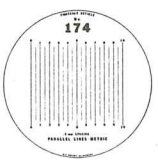
Like No. 133 and No. 139 but in 20 metric sizes from .5 mm to 10.0 mm by .5 mm increments.

No. 172 — Parallel Lines, Decimal Inch Sizes

Parallel lines spaced .01 in. apart and marked each .1 in. This is like the counting grids without the horizontal lines. Total of 51 lines covering .5 in. width.

No. 173 — Parallel Lines, Fractional Inch Sizes

Like No. 172 but with lines spaced every 1/64 inch and marked every 1/8 in. Total of 33 lines covering 1/2 in. in width.



No. 174 — Parallel Lines, Metric Sizes

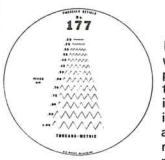
Like No. 172 and No. 173 but spaced in metric increments. There are a total of 21 lines spaced .5 mm apart for a total width of 10 mm.

No. 175 — Bore Sight Target

This reticle is the familiar crossed lines, but with a .050 in. dia. circle in the center to form a "bore sight" or "window" at the intersection of the lines.

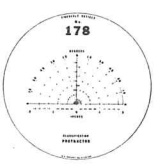
No. 176 — L & N Strip Chart Scale

For measuring L & N strip chart recorder information. Axial scale is compressed 5% in true measure to accommodate 9.5" scale travel. The "width" scale is true measure.



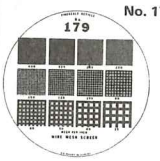
No. 177 — Thread Pitch, Metric Sizes

Like No. 135 but with 13 metric thread pitches from .20 mm to 1.00 mm. Pitches increase in .5 mm increments to .5 mm and by .1 mm increments to 1.00 mm plus .75 mm.



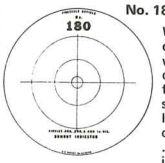
No. 178 — Protractor

This is another special purpose reticle originally designed for use by crime laboratories for fingerprint classification. Its unique combination of angular and linear information make it useful in other fields.



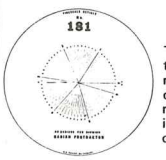
No. 179 — Wire Mesh Screen

The size of the many fine mesh screens used for filters and other purposes. It has sections of 12 sizes of screen. Sizes are 35, 40, 50, 60, 80, 100, 120, 150, 200, 250, 325, and 400 mesh per inch.



No. 180 — Runout Indicator

We call this a "Runout Indicator" since it was first used to check drill runout on flat layouts. It consists of two crossed lines at 90° with three concentric circles .050, .200, and .400 inches in diameter.

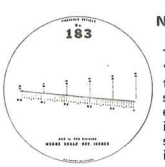


No. 181 — Radian Protractor

The familiar protractor divided into radians instead of degrees. There are 2π radians by .05 radian increments running counter-clockwise.

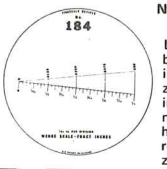
No. 182 — Angles

13 discrete angles arranged in a circle. Angles shown are 1, 2, 3, 4, 5, 10, 15, 20, 25, 30, 45, 60, and 90 degrees. Has application where a protractor becomes difficult to read.



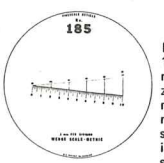
No. 183 — Wedge Scale, Decimal Inch Sizes

This scale provides a "vertical vernier" in the ratio of 10:1. The space between lines is exactly 1/10 the reading on the horizontal scale. The scale itself is .500 in. long by .005 in. increments.



No. 184 — Wedge Scale, Fractional Inch Sizes

Like No. 183 but calibrated in fractional inch sizes. The horizontal scale reads 1/2 in. by 1/64 in. increments. The vertical height is 1/10 the reading of the horizontal scale.



No. 185 — Wedge Scale, Metric Sizes

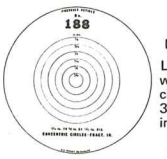
Like No. 183 and No. 184 but calibrated in metric sizes. The horizontal scale reads 10 mm by .1 mm increments. The vertical scale is 1/10 the reading of the horizontal scale.

No. 186 — Printers Point Rule

This scale is calibrated in printers points. It reads to 36 points by 1/2 point and can be used in place of reticle No. 131 for all measurements in this system.

No. 187 — Concentric Circles, Decimal Inch Sizes

Similar in purpose to No. 169 but with fewer circles arranged on a common center. Sizes range from .050 in. to .400 in. by .050 in.

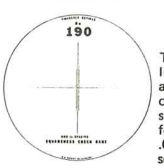


No. 188 — Concentric Circles, Fractional Inch Sizes

Like No. 187 but with fractional inch circles 1/16 in. dia. to 3/8 in. dia. by 1/16 in. increments.

No. 189 — Concentric Circles, Metric

Like No. 187 and No. 188 but with metric circles 1 mm dia. to 10 mm dia. by 1 mm increments.



No. 190 — Squareness Check Gage

This is a set of crossed lines at 90° with parallel lines on each side of each crossed line spaced .005 in. to form a plus or minus .005 in. tolerance for squareness checking.

HUNTER
RUBBER ENCLOSED INSULATED LAMPS

FEATURES

- Fully Insulated
- Vapor & Moisture Proof
- Portable
- Easy to relamp
- Rugged Construction
- Approved by Safety Engineers
- Magnetic Bases Available
- Incandescent & Fluorescent Types

APPLICATIONS

- **BUILDING SITES:** Construction and Maintenance
- **PUBLIC UTILITIES:** Manhole Lighting, Trench Lighting, Emergency Lighting
- **GARAGE AND MAINTENANCE:** Maintenance, General Equipment Lighting, Trouble Shooting
- **AIRCRAFT:** Repair, Inspection, Maintenance
- **MANUFACTURING:** Trouble Shooting, Inspection, Maintenance
- **OIL AND CHEMICAL:** Pipe line, Tanks, Trucks

ERSOLUX-8
ERSOLUX-L8W

Model ERSOLUX-8

Fluorescent hand lamp, resistance stabilized, completely insulated with rubber and enclosed in unbreakable plastic. Equipped with starter switch in cap. Hand grip and suspension hook.

8 watt 110 volt
Length: 17½"
Ersolux-8 resistance stabilized

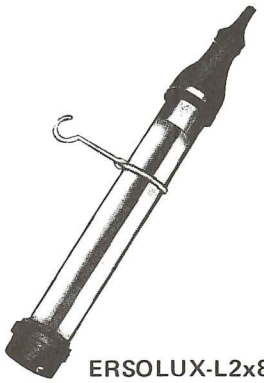
Price complete: $23.50

Model ERSOLUX-L8W

Fluorescent hand lamp same as above, but equipped with leakage reactance isolation transformer for total isolation from mains supply. The ultimate in safety lamps.

8 watt 110 volt
Length: 17½"
Ersolux-L8W with transformer

Price complete: $28.95



ERSOLUX-L2x8W

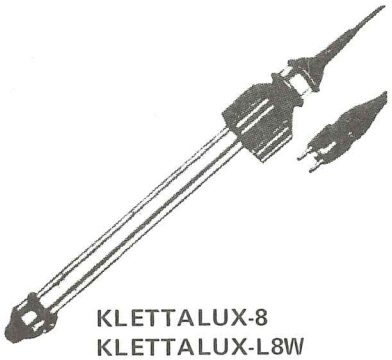
Model ERSOLUX-L2x8

Fluorescent hand lamp equipped with dual 8 watt bulbs. Completely insulated with rubber and enclosed in unbreakable plastic. Equipped with starter switch, suspension hook and leakage reactance.transformer for total mains supply isolation.

Dual 8 watt bulbs
110 volt

Ersolux-L2x8W with transformer

Price Complete: $43.20



KLETTALUX-8
KLETTALUX-L8W

Model KLETTALUX-8

Fluorescent hand lamp similar to Eroslux-8 described above but with powerful permanent magnet in handle for easy mounting to metal surfaces instead of suspension hook.

8 watt 110 volt
Length: 17½"
Klettalux-8 resistance stabilized

Price complete: $25.50

Model KLETTALUX-L8W

Same as above, but equipped with leakage reactance isolation transformer for total isolation from mains supply. The ultimate in safety lamps.

8 watt 110 volt
Length: 17½"
Klettalux L8W with transformer

Price complete: $30.95

KLETTALUX-127

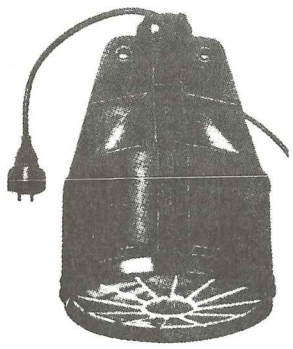
INCANDESCENT
Model KLETTALUX-127

Incandescent, rubber enclosed with magnetic base. Includes Jena Glass shield, guard grill and 5 yds. of cable.

Completely insulated
40 watt

Klettalux-127 Incandescent
with magnet

Price complete: $18.50



INDULUX-500E

Model INDULUX 500E
GOLIATH

A large, highly efficient rubber enclosed lighting unit. Unbreakable and splash-proof with protective insulation. Guard grill covered with P.V.C. and includes Tempex Glass shield. Designed for heaviest outdoor usage and rough service conditions. Sealed connection box for simple cable hook-up.

500 watt

Indulux 500E Incandescent

Price complete: $65.50

INDULUX-150H

Model INDULUX 150H

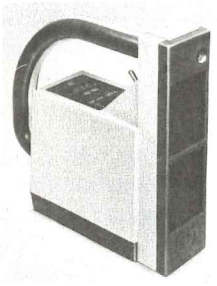
These rubber insulated incandescent hand lamps are unbreakable and waterproof. Equipped with P.V.C. covered guard grill, Tempex Glass Shield, protected cable entry and adjustable suspension hook.

150 watt

Indulux 150H Incandescent

Price complete: $24.50

BLAK-RAY ULTRAVIOLET LAMPS AND FLUORESCENT MATERIALS
For Industry, Schools and Hobby



ML-49 Portable Hand Lamp

Most powerful battery operated lamp available.

- Rugged Cycolac Housing
- Light Weight – 4½ lbs. with batteries
- Self-contained flashlight–for your safety
- 6 watt tube
- Snap open battery compartment

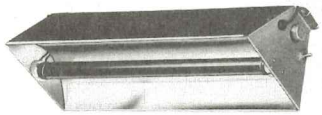
MODEL ML-49 LAMP (less batteries) **$39.75**
J-135, set of 2 Lantern Batteries **$ 3.38**

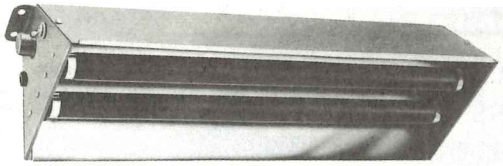
B-100A High Intensity Lamp

High intensity of black light unexcelled for inspection applications and close-up analysis.

- 100 Watt Black Light spot bulb
- Specially molded black bakelite handle
- Lamp Head rotates full 360° and is removable from base for convenient hand use
- Operated on 115 volts, 60 Hz.
- U.L. & C.S.A. listed

B-100A BLAK-RAY LAMP **$119.75**
19081 Replacement Bulb **$ 17.50**





BLAK-RAY X-SERIES LAMPS

- Designed to beam Black Light over large areas for brilliant fluorescence
- Excellent as spotlights for display items treated with fluorescence
- Single tube units are excellent for flat surfaces while double tube units are recommended for area lighting
- Rugged Metal Housing
- Black Light Self-filtering blue tubes, operate on 115 volt, 60 Hz.

X-15 B FIXTURE, for single 15 watt tube **$27.50 less tube**
50058, 15 watt Black Light Tube **$ 7.95**

SS-15 FIXTURE, for two 15 watt tubes **$32.50 less tube**
50058 15 watt Black Light Tube (2 Req.) **$ 7.95 each**

J-162 Hanging Brackets Special adjustable brackets for ceiling or wall mounting **$ 4.95 per pr.**

INVISIBLE NON-POROUS INK

Ideal for invisible coding or dating of parts and quality control check on non-porous materials.

A-632	**$1.00**	1 oz.
	$6.75	1 pt.

INVISIBLE POROUS INK

Good for invisible coding or dating of corrugated cardboard, paper, dacron and tricot fabrics and other porous materials.

A-634	**$1.00**	1 oz.
	$6.75	1 pt.

TRACER MATERIALS

Fluorescent materials for criminology, public health demonstrations, various agricultural uses, etc.

TRACER POWDER

Invisible Color	Number
Green	C-201
Orange	C-204
Yellow	C-205

PRICE: ½ oz. **$ 1.75**
1 lb. **$19.75**

TRACER PASTE

Invisible Color	Number
Green	C-260
Orange	C-263
Yellow	C-264

PRICE: ½ oz. **$ 1.75**
1 lb. **$30.00**

FLUORESCENT PENCILS

Wood encased, non-wax type. For coding and marking, for lay-out of fluorescent artwork and fine line art, and to demonstrate lighting on architect's sketches. Also for aircraft charting when nighttime and daytime visibility are needed.

Invisible Color	Number
Yellow	C-195
Green	C-196

PRICE: per dozen **$ 2.95**
per gross **$33.50**

Visible Color	Number
Red	150
Orange	160
Green	170
Blue	180
Yellow	190

"CHINA MARKING" FLUORESCENT PENCIL

Paper-wrapped, wax type. For marking on glass and plastic. Visible green and fluorescent green under black light.

PRICE: C-176 **$1.00 each**

FLUORESCENT CRAYONS

A smooth writing, wax crayon.

Invisible Color	No.
Yellow	C-125
Orange	C-126
Blue	C-127
Green	C-128
Red	C-129
Blue White	C-130
Pink	C-133
Purple	C-134
White	C-135
Gold	C-137
Chartreuse	C-138
Flesh	C-139

PRICE: $.35/ea.

WATER GLOW PASTE

Recommended for large waterfalls. One pound fluorescence from 5,000 to 7,000 gals. of water. Will last 2-3 weeks indoors.

Fluorescent Color	No.
Purple	A-648
Orange	A-649
Yellow	A-650
Blue	A-653
Green	A-651
Red	A-652

PRICES: A-648, A-650, A-653 – **$27.50/lb.**
A-651, A-652 **$34.50/lb.**

HUNTER ASSOCIATES
792 PARTRIDGE DRIVE
SOMERVILLE, N.J.
PHONE: (201) 526-8440

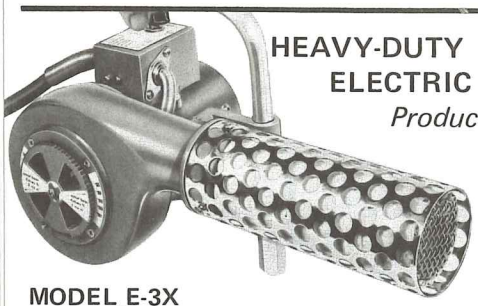
ELECTRIC HEAT GUNS — *for industrial and commercial applications*

- Portable — 3½ lbs.
- Flameless
- Quick-Heat
- Adjustable
- Hi-Air Volume, 35 C.F.M.
- 3000 F.P.M. Air Velocity
- Also Blows Cold Air-Selector Switch Control

Model	Volts	Amps	Temperature	Price
200-X	115	5	150/200°F.	$43.50
2-200-X	230	3	150/200°F.	$51.50
500-X	115	10	300/500°F.	$43.50
2-500-X	230	6	300/500°F.	$51.50
750-X	115	14	500/750°F.	$47.50
2-750-X	230	9	500/750°F.	$52.50
1000-X	115	20	750/1000°F.	$58.50
2-1000-X	230	12	750/1000°F.	$66.50

Deflector Attachments for Shrinking, Curing or Sealing	Price
No. 195-1 Connector Tube (required with deflectors	$2.95
No. 195-3 Deflector for Tubing up to 1¼" O.D.	$2.95
No. 195-2 Deflector for Tubing up to ¾" O.D.	$2.75

HEAVY-DUTY HI-VELOCITY ELECTRIC HEAT GUNS—*for Heavy Production use*



- High Air Velocity
- "Cool Nozzle" Construction
- Rugged Blowers

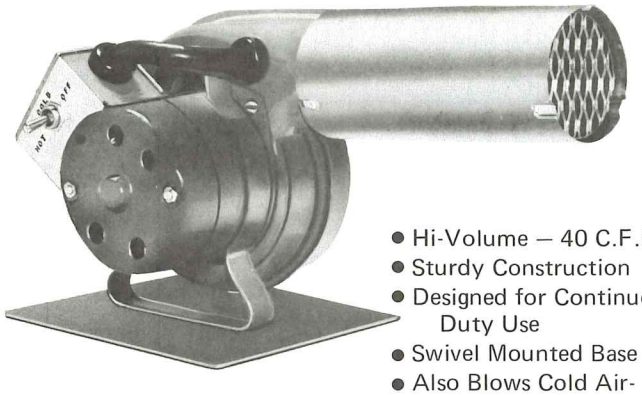
MODEL E-3X
to 1000°F.

Model No.	Temp.°F.	H.P.	Volts	Amps	Watts	CFM	FPM	Wgt. (lbs)
*E-3X	350/1000	1/3	115 AC	20	2200	28.5 max.	4200 max.	12
E-2X	200/500	1/4	115 AC/DC	13	1440	28.5 max.	4200 max.	10
E-1X	160	2/5	115 AC/DC	11	1250	50 max.	11,500 max.	9

*Includes 2-position heat selector

	MODEL	
	E-3X	**$150.00**
PRICE:	E-2X	**$125.00**
	E-1X	**$ 95.00**

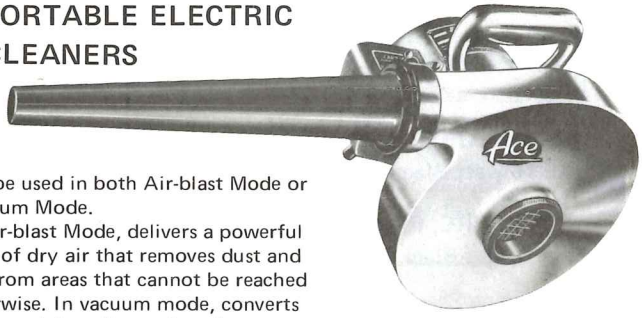
CONTINUOUS-DUTY HOT AIR GENERATORS



- Hi-Volume — 40 C.F.M.
- Sturdy Construction
- Designed for Continuous Duty Use
- Swivel Mounted Base
- Also Blows Cold Air-Selector Switch Control

Model	Volts	Amps	Temperature	Price
400-X	115	10	300/400°F.	$56.00
2-400-X	230	5	300/400°F.	$66.00
600-X	115	12	500/600°F.	$59.00
2-600-X	230	6	500/600°F.	$69.00
800-X	115	18	700/800°F.	$77.50
2-800-X	230	10	700/800°F.	$87.50

PORTABLE ELECTRIC CLEANERS



Can be used in both Air-blast Mode or Vacuum Mode.
In Air-blast Mode, delivers a powerful blast of dry air that removes dust and lint from areas that cannot be reached otherwise. In vacuum mode, converts to powerful suction-action cleaner.

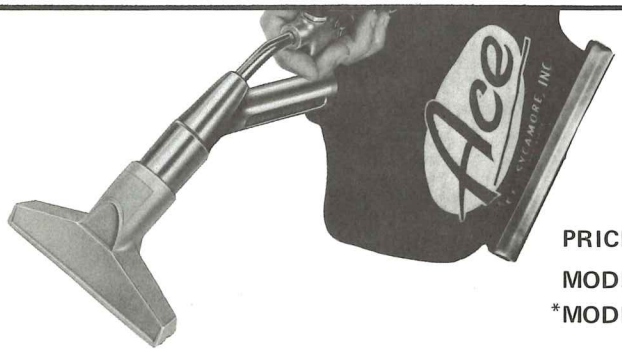
Model	Motor	FPM Air Velocity	Water Lift	CFM	Volts	Weight	Price
*A-1X	1-1/3 H.P.	27,000	48"	196	115	15 lbs.	$129.50
D-1	1/3 H.P.	12,000	18"	53	115	8 lbs.	$ 76.00

*2 speed heavy duty model

Vacuum Cleaner Accessory Kits

Kit No.	For Model No.	Price
110	A-1X	$26.00
111	D-1	$25.00

Note: Vacuum cleaner accessory kits are required for vacuum mode operation. Each kit contains dust bag, carrying strap, female cleaning nozzle, double row brush, hose with swivel connector, nipple and male crevice cleaning tool.



AIR-VAC

Handy, powerful, air-operated vacuum cleaning tool. Operates on Venturi principle from standard air lines with 60-150 p.s.i. pressure. No moving parts. Absolutely no danger when using Air-Vac in enclosed or explosive areas. Can be used to pick up combustible liquids or dusts.

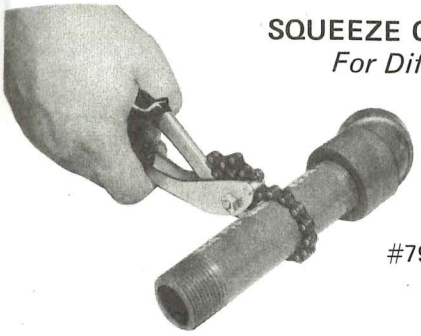
PRICE

MODEL 60 Air Vac	**$29.95**
***MODEL A-601** Attachment Kit	**$ 5.95**

*Includes crevice tool, round rubber brush, and 20" long extension wand.

HUNTER TOOLS

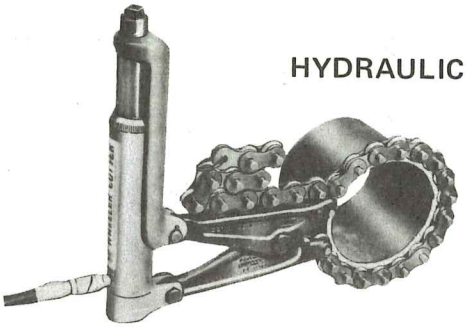
SQUEEZE CHAIN WRENCH
For Difficult Shapes & Materials



#790 with 8" Powerloc Chain and rugged forged steel handle

PRICE: $ 7.95

HYDRAULIC PIPE CUTTERS



#1790-4 2"-4" STD or 2"-4" X H soil pipe or 2"-4" Tile, 2"-3" water main. **Price: $145.00**

#1790-15 2"-8" STD or 2"-6" X H soil pipe or 2"-15" Tile, 2"-3" water main. **Price: $192.30**

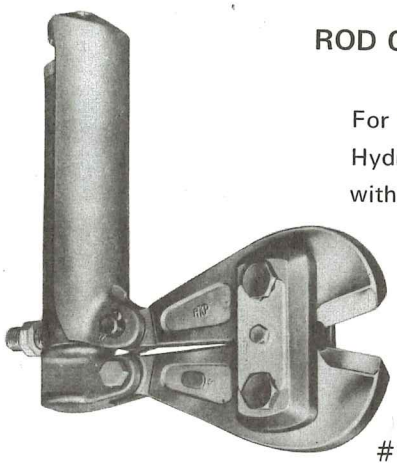
Larger Sizes Available

"Squeeze & Pop" GLASS CUTTER

Pocket-size tool for cutting glass, porcelain and other brittle materials

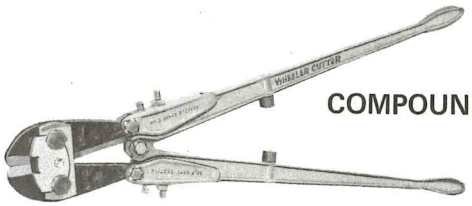
#69012	For material through 3/4" diameter	$ 9.95
#79014	For material through 1" diameter	$14.95
#79022	For material through 1½" diameter	$19.00

ROD CUTTING JAWS



For 590 manual cutters or 1790 Hydraulic Cutters. Interchangeable with pipe cutter jaws.

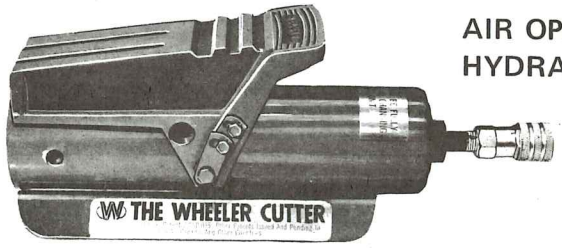
#1718 Cutter Head only **$39.00**



COMPOUND ACTION CUTTERS

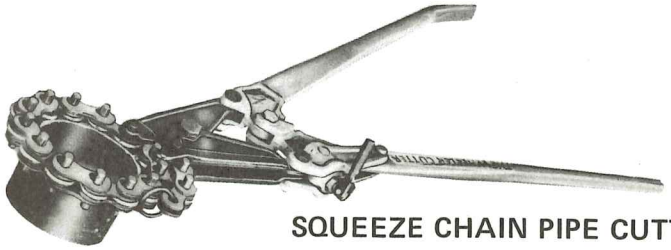
		PRICE
#1490	for rods thru 1/4" and bolts thru 5/16"	$11.25
#1890	for rods thru 5/16" and bolts thru 3/8"	$12.40
#2490	for rods thru 3/8" and bolts thru 7/16"	$14.25
#3690	for rods thru 9/16" and bolts thru 5/8"	$20.40
#4390	for rods thru 5/8" and bolts thru 3/4"	$71.75

AIR OPERATED HYDRAULIC PUMP



Can be used with #1790 hydraulic cutters to speed and ease operation. To be used with 80-125 lb. compressor

#1530 Pump **Price $145.00**



SQUEEZE CHAIN PIPE CUTTERS

#590-6	2"-6" STD or 5" X H soil pipe or 6" Tile	$ 71.50
#590-8	2"-6" STD or 5" X H soil pipe or 8" Tile	$ 94.80
#590-10	2"-6" STD or 5" X H soil pipe or 10" Tile	$102.90
#590-12	2"-6" STD or 5" X H soil pipe or 12" Tile	$110.50
#590-15	2"-6" STD or 5" X H soil pipe or 15" Tile	$118.80

Larger Sizes Available

DIAMETER TAPE

For measuring diameter or circumference of pipe or any cylindrical object. 72" linear readings or 23" diameter reading.

#60 Diameter Tape **Price $3.60**

HUNTER/MOLE CUTTERS • WRENCHES • CLAMPS

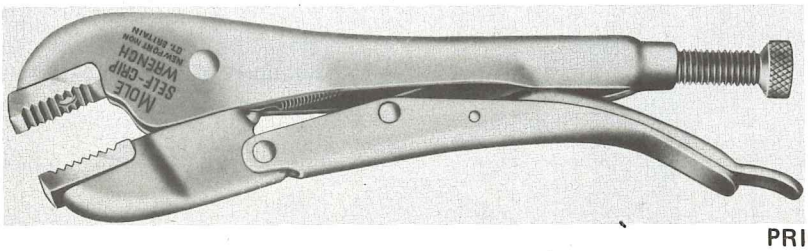
SUPERCUT

The SUPERCUT is a precision made hand cutting tool with a powerful action. Easy to control and comfortable to use, this device will cut straight lengths, curved profiles and angles in all listed materials.

Can be used for following sheet materials:
Plastic laminates, hardboard, vinyl, light plywood, PVC floor tiling, linoleum, leather, celluloid, roofing felt, wire netting, sheet steel, aluminum, brass, copper, lead, zinc, and stainless steel.

MODEL SC403: **PRICE: $10.95**

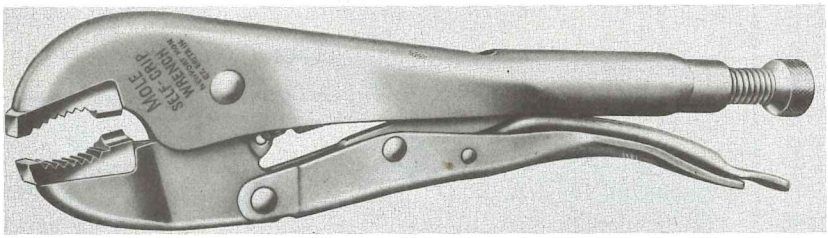
REPLACEMENT BLADE **$1.00**



STANDARD SELF-GRIP TOGGLE WRENCH

Features famous self-grip mechanism and feather-touch release lever. Can be used as hand-vise, clamp and super-plier. Gripping power of over 2000 lbs.

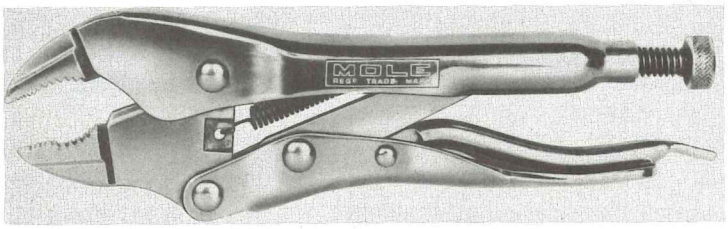
PRICE: MODEL No. 7 (7") **$2.95** each
MODEL No. 10 (10") **$3.25** each



CURVED JAW SELF-GRIP TOGGLE WRENCH

Developed for use on difficult, irregular shapes, pipes and conduits, this model incorporates all the features of the standard wrench and has specially designed curved jaws to give multi-point grip. Also includes powerful wire cutters.

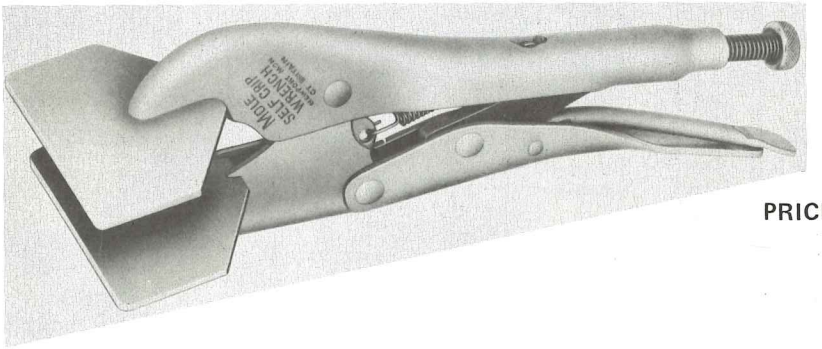
PRICE: MODEL 7W (7") **$3.25** each
MODEL 10W (10") **$3.95** each



MINI SELF-GRIP TOGGLE WRENCH

A compact version of the standard self-grip toggle wrench, this model gives an extra dimension to hand tools, being small enough for the most intricate job while exerting a tremendous grip with both hands removed. Ideal for use on electrical, electronic, radio work and complex small mechanisms.

PRICE: MODEL No. 5 (5") **$2.75** each



SELF-GRIP SHEET METAL TOOL

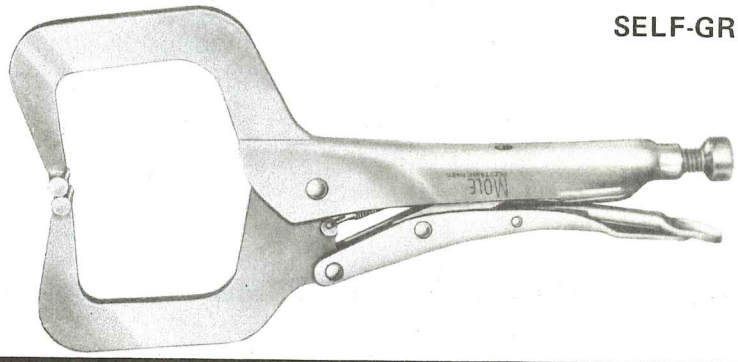
This tool locks onto sheet metal with a powerful grip, eliminating tiresome hand work and assuring more perfect forming. Features quick-release lever and high carbon steel jaws.

PRICE: MODEL No. 8 **$4.50** each

SELF-GRIP, QUICK ACTING WELDING CLAMP

While primarily designed as a clamp for welding operations, this unit is readily adaptable for many other uses in garage or engineering workshop. Width of Jaws 2¾". Opening of jaws 2".

PRICE: MODEL No. 12 **$ 4.95**



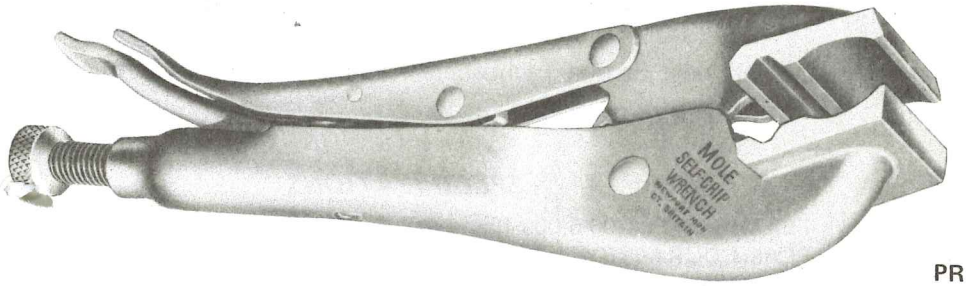
SELF-GRIP, QUICK ACTING "C" CLAMP

Clamps angle and channel sections with ease. Indispensable for marking off, gluing, welding, template making, etc.

Mammoth jaw opening gets around intricate and awkward shapes – with small area at gripping point for ease in working at close quarters. Length 11".

PRICE: MODEL No. 11 **$ 4.95**

SELF-GRIP, UNIVERSAL TUBE GRIP



Equipped with two jaw gripping sections. An outer, smooth section is primarily designed for use on plastic tubing without marring. The inner "V" section gives a positive grip on all metal tubes without crushing. Capacity of outer section: 1/2" – 1-3/8" diameter. Capacity of inner section: 7/16" – 7/8" diameter.

PRICE: MODEL No. 10T **$ 4.75 each**

SELF-GRIP TOGGLE ACTION PIPE CUTTER

- Features self-grip action. Brings speed and power to cutting of metal pipes.
- Faster and more powerful in use than conventional tools.

Locked on and rotated, this pipe cutter cuts a deep groove around the tube. This locking grip can be instantly relaxed allowing progressive settings to speed the complete cutting operation. Will cut tubes up to 2" outside diameter.

PRICE: MODEL PC302 **$12.25 each**

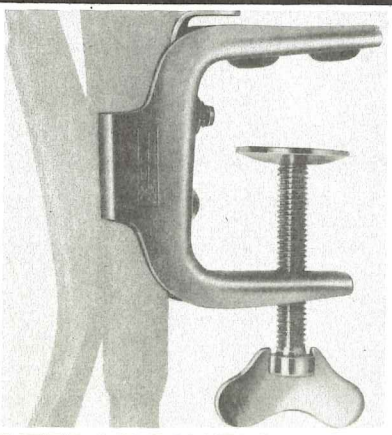


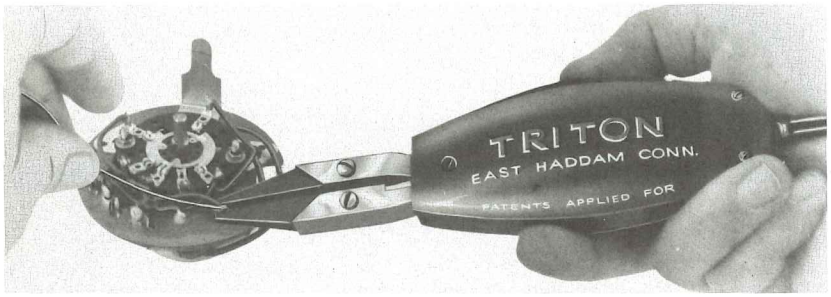
TABLE CLAMP ADAPTER

This unit adapts the self-grip wrenches for use as a portable small vise. easily secured in position on table top, bench, or shelf. Designed for use with Model No.'s 7, 7W, 10 and 10W wrenches.

PRICE: MODEL No. TC201 **$2.50 each**

INGENIOUS NEW SOLDERING TOOL

PLIER-ACTION INSTANT-HEAT SOLDERING UNIT

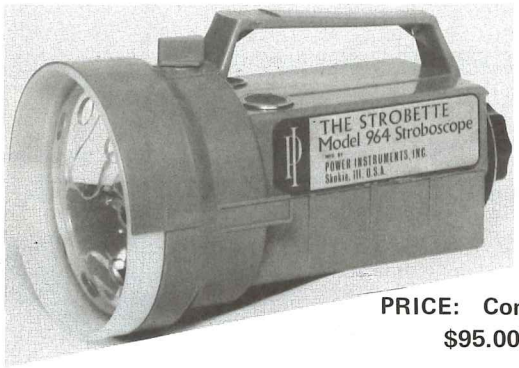


- Instant Heating
- Simplifies Soldering
- Hi-Lo Heat Control
- Ideal for Industry or Hobbyists

PRICE: $34.95
Complete with Transformer

Grips, heats by direct resistance heating effect of current, and holds while joint sets and cools. In addition to soldering, may also be used for silver soldering, heat treating, annealing, tempering, brazing and butt welding of small parts.

CATALOG NO. 61E



PRICE: Complete $95.00

"STROBETTE"
STROBOSCOPE - TACHOMETER

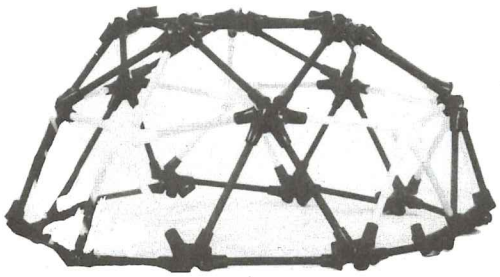
- Low Cost
- Wide Range
- Light Weight
- Compact: Can be carried in a tool box
- Tripod Socket: Accepts 1/4-20 thread
- All Solid-State Circuitry

Lowest cost Strobe-Tachometer available. Used for stop-motion studies and non-contact tachometry.

SPECIFICATIONS

FLASH RATE: 200-6,000 flashes per minute
FLASH DURACTION: 10-25 microseconds
FLASH COLOR: Xenon white
CASE: Hi-Impact Plastic
SIZE: 3" x 3" x 7"
WEIGHT: 27 oz.
POWER: 117 volt, 60 Hz.,

CATALOG NO. 62E



GEODESIC DOME KIT

Includes vinyl hubs, color-coded wood struts and the Dome Discovery Book. Permits the actual construction of fascinating geodesic dome models. An exciting and enlightening conversation piece/art work.

PRICE Complete: $9.00
MODEL No. 102

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